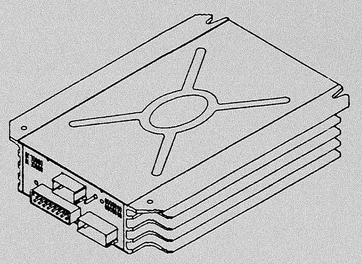
Car Soundsystem 22 DP 603/23

22 DP 603/23 B
22 DP 603/23 E

Service
Service
Service



Service Manual

12 V ⊖

CONTENTS

Pages	2-5	Connectors, Technical Data, Test Instruction, Wiring Diagram	
Page	6	Layout:	Analogue PWB
Page	7	Circuit diagram:	Power Supply
Page	8		Amplifier Front Left
Page	9		Amplifier Front Right
Page	10		Amplifier Rear Left
Page	11		Amplifier Rear Right
Page	12		Amplifier Subwoofer 1
Page	13		Amplifier Subwoofer 2
Page	14	Layout:	Digital PWB
Page	15	Circuit diagram:	µC 1
Page	16		µC 2
Page	17		D/A-Converter, Volume
Page	18		Analogue Input
Page	19		Digital Input, Fan Supply
Pages	20-22	Electrical Partslist	
Page	23	Exploded View, Mechanical Parts	

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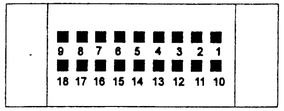
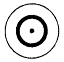
PHILIPS

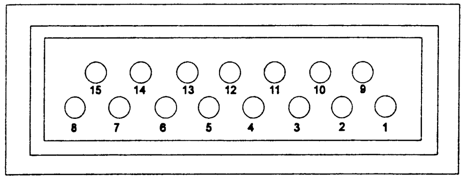
CONNECTORS

1: NC
2: TEL. GND
3: NC
4: NC
5: I-BUS
6: NC
7: NC
8: GND
9: GND

10: NC
11: TEL. ANALOG
12: NC
13: NC
14: NC
15: TEL. ON
16: GND
17: ANALOG IN R
18: ANALOG IN L



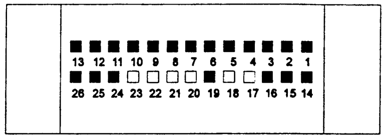

Dig. Input
CD



1: Subwoofer 1 +
2: Subwoofer 2 +
3: Woofer RL +
4: Remote
5: Woofer RR -

6: Subwoofer 4 -
7: Subwoofer 3 -
8: Ign. Key
9: Subwoofer 1 -
10: Subwoofer 2 -

11: Woofer RL -
12: Woofer RR +
13: Subwoofer 4 +
14: Subwoofer 3 +
15: Gnd



1: Woofer FL +
2: Woofer FL -
3: Midrange RL -
4: Midrange FR -
5: Midrange FL +
6: Midrange RL +
7: Midrange RR -

8: Midrange RR +
9: Midrange RR +
10: Midrange FL -
11: Treble RR +
12: Treble FR +
13: Woofer FR +
14: Treble FL +

15: Treble FL -
16: Treble RL -
19: Treble RL +
24: Treble RR -
25: Treble FR -
26: Woofer FR -
☐: NC

TECHNICAL DATA, TEST INSTRUCTION

Start-up condition	Supply voltage:	14,4V
	Vremote:	0V
	Telephone - ON:	14,0V
	Analog inputs:	Generator ground
Output loads:	SW 1/2/3/4:	8 Ω / 1%
	WFR/WFL/WRR/WRL:	8 Ω / 1%
	MFR/MFL:	4 Ω / 1%
	TFR/TFL/TRR/TRL:	4 Ω / 1%

Please pay attention to
The following measurements are related to an amplifier having no room simulation activated and settings like user equalizer, bass, treble, fader and balance in neutral position and loudness switched off.
The influence of the parametric equalizer has been taken into account.
Settings are stored in the Eeprom and can only be changed when the amplifier is connected to the sound system or to a simulation equipment.
To check and verify all relevant parameters of the set, computer controlled measuring tools are necessary which are only installed in the factory Wetzlar.

Current consumption:	Measure only tel-ON-current:	< 10mA
	Measure standby current:	< 300mA
	Vremote:	14,0V
	Measure quiescent current:	< 700µA

Frequency response telephone

Telephone - ON:	14,0V					
Telephone input:	1,0V					
WFR/WFL:	333Hz	Uout = 0,96V	± 160mV	Distortion:	333Hz	< 1%
WFR/WFL:	100Hz	Uout = 0dB	± 1dB			
WFR/WFL:	1,0KHz	Uout = 0dB	± 1dB			
WFR/WFL:	6,0KHz	Uout = 0dB	± 1dB			

Check analog inputs

DSP volume step:	63 (= Vol. max)
Source:	Radio
Generator voltage:	100mV
Telephone - ON:	0V

Values written in bold - italic style are valid for version /23E (BMW E39 system)

Test frequencies:

TFR/TFL:	10,0KHz	Uout = 500mV	±200mV	***4,5 KHz***	***Uout = 770mV***	***±200mV***
TRR/TRL:	10,0KHz	Uout = 550mV	±200mV	***4,5 KHz***	***Uout = 250mV***	***±200mV***
MFR/MFL:	1,0KHz	Uout = 600mV	±200mV	***900Hz***	***Uout = 1,25V***	***±200mV***
MRR/MRL:	1,0KHz	Uout = 0V	+100mV	***900Hz***	***Uout = 0V***	***+100mV***
WFR/WFL:	170Hz	Uout = 2,4V	±300mV	***170Hz***	***Uout = 2,55V***	***±300mV***
WRR/WRL:	170Hz	Uout = 640mV	±300mV	***170Hz***	***Uout = 850mV***	***±300mV***
SW 1/2/3/4:	40,0Hz	Uout = 3,1V	±300mV	***25Hz***	***Uout = 6,8V***	***±300mV***

Low battery switch-off	Generator voltage:	100mV
	Supply voltage:	7,0V
	Measure all outputs:	0mV < Uout < 1,5mV

Frequency response TFR/TFL

Generator voltage:	100mV				
2,0KHz	Uout = -17dB	±1,5dB	***500Hz***	***Uout = -18,2dB***	***±1,5dB***
5,0KHz	Uout = -1,4dB	±0,5dB	***1,5KHz***	***Uout = -8,7dB***	***±0,5dB***
19,0KHz	Uout = -0,75dB	±0,5dB	***4,0KHz***	***Uout = -0,5dB***	***±0,5dB***

Frequency response TRR/TRL

Generator voltage:	100mV				
1,0KHz	Uout = -27,2dB	±1,5dB	***1KHz***	***Uout = -13,8dB***	***±1,5dB***
2,0KHz	Uout = -8,8dB	±1,5dB	***4KHz***	***Uout = -0,15dB***	***±0,5dB***
5,0KHz	Uout = -0,45dB	±0,5dB	***9KHz***	***Uout = -2,3dB***	***±0,5dB***
19,0KHz	Uout = -0,96dB	±0,5dB	***15KHz***	***Uout = -0,45dB***	***±0,5dB***

Frequency response MFR/MFL

Generator voltage:	100mV				
500Hz	Uout = -7dB	±1,5dB	***200Hz***	***Uout = -19,7dB***	***±1,5dB***
1,0KHz	Uout = 0dB	±0,5dB	***900Hz***	***Uout = 0dB***	***±0,5dB***
2,0KHz	Uout = -6,4dB	±0,5dB	***2KHz***	***Uout = -6,7dB***	***±1,0dB***
6,0KHz	Uout = -10,3dB	±1,5dB	***5KHz***	***Uout = -14dB***	***±1,5dB***

Frequency response WFR/WFL

Generator voltage:	100mV				
40Hz	Uout = -14,4dB	±1,5dB	***40Hz***	***Uout = -21,6dB***	***±1,5dB***
170Hz	Uout = 0dB	±0,5dB	***170Hz***	***Uout = 0dB***	***±0,5dB***
350Hz	Uout = -4dB	±0,5dB	***400Hz***	***Uout = -1dB***	***±0,5dB***
1,0KHz	Uout = -15,6dB	±1,5dB	***1KHz***	***Uout = -12,6dB***	***±1,5dB***

Frequency response WRR/WRL

Generator voltage:	100mV				
40Hz	Uout = -10,4dB	±1,5dB	***40Hz***	***Uout = -15,2dB***	***±1,5dB***
170Hz	Uout = 0dB	±0,5dB	***170Hz***	***Uout = 0dB***	***±0,5dB***
500Hz	Uout = +1,9dB	±0,5dB	***500Hz***	***Uout = +3,4dB***	***±0,5dB***
1,6KHz	Uout = -3,5dB	±0,5dB	***2KHz***	***Uout = -9,8dB***	***±1,5dB***

Frequency response SW1/2/3/4

Generator voltage:	100mV				
20Hz	Uout = -2,8dB	±1,5dB	***20Hz***	***Uout = +1,7dB***	***±1,0dB***
60Hz	Uout = -2,1dB	±1,5dB	***60Hz***	***Uout = -5,0dB***	***±1,5dB***
120Hz	Uout = -15dB	±1,5dB	***120Hz***	***Uout = -19,6dB***	***±1,5dB***

Distortion measurement TFR/TFL				
Generator voltage:	700mV/3,0KHz	D < 1%	***450mV/4,5KHz***	***D < 1%***
Distortion measurement TRR/TRL				
Generator voltage:	600mV/3,0KHz	D < 1%	***500mV/4,5KHz***	***D < 1%***
Distortion measurement MFR/MFL				
Generator voltage:	600mV/1,0KHz	D < 1%	***260mV/900Hz***	***D < 1%***
Distortion measurement WFR/WFL				
Generator voltage:	250mV/170Hz	D < 1%	***250mV/170Hz***	***D < 1%***
Distortion measurement WRR/WRL				
Generator voltage:	900mV/500Hz	D < 1%	***400mV/500Hz***	***D < 1%***

Distortion measurement SW1/2/3/4

Generator voltage:	300mV/40Hz	D < 3%	***175mV/25Hz***	***D < 3%***

Noise output level(dB(A) filter)

TFR/TFL, TRR/TRL, MFR/MFL:		N < 10mV
WFR/WFL, WRR/WRL, SW1/2/3/4:		N < 15mV

Crosstalk

Use bandpass filter

Generator voltage:	100mV			
TFR/TFL, TRR/TRL:	10,0KHz	< -40dB	***4,5KHz***	***< -40dB***
MFR/MFL:	1,0Kz	< -50dB	***900Hz***	***< -50dB***
WFR/WFL, WRR/WRL:	170Hz	< -50dB	***170Hz***	***< -50 dB***

Ripple Rejection Ratio

Power supply modulation:	1KHz / 330mV
Use bandpass filter	1KHz
TF, TR, MF, WF, WR, SW 1/2/3/4:	RRR < -40dB

Common Mode Rejection Ratio

Use bandpass filter		3,0KHz	***4,5KHz***	
Generator voltage:		100mV		
TFR/TFL:	3,0KHz	CMRR < -38 dB	***4,5KHz***	***CMRR < -38 dB***

Channel differences

Generator voltage:	100mV			
TFR/TFL, TRR/TRL:	10,0KHz	D = 0dB ±1dB	***4,5KHz***	***D= 0dB ±1dB***
MFR/MFL:	1,0KHz	D = 0dB ±1dB	***900Hz***	***D= 0dB ±1dB***
WFR/WFL, WRR/WRL:	170Hz	D = 0dB ±1dB	***170Hz***	***D= 0dB ±1dB***

HF Sensibility (dB(A) filter)

HF:	1,0V + (LF : 1KHz & 30 % modulation)	
HF:	100KHz, 1 MHz, 10 MHz, 100 MHz	
TF, TR, MF, WF, WR, SW 1/2/3/4:		Uout < 10 mV

Maximum output swing for power stages

TFR/TFL:	10,0KHz / 800mV	Uout > 3,5 V	***4,5KHz/900mV***	***Uout > 6,5V***
TRR/TRL:	10,0KHz / 960mV	Uout > 5,0 V	***4,5KHz/950mV***	***Uout > 1,9V***
MFR/MFL:	1,0KHz / 1,1V	Uout > 6,0 V	***900Hz/520mV***	***Uout > 6,2V***
WRR/WRL:	500Hz / 1,15V	Uout > 8,9 V	***500Hz/780mV***	***Uout > 8,5V***
WFR/WFL:	170Hz / 460mV	Uout > 11,5V	***170Hz/480mV***	***Uout > 12V***
SW 1/2/3/4:	40Hz / 330mV	Uout > 10,5V	***25Hz/175mV***	***Uout > 11V***

Check Digital Input

DSP volume step:	63 (= Vol. max)
Source:	CD
Digital Generator:	5 % Full Scale
Telephone - on:	0V

Test frequencies :

TFR/TFL:	10,0KHz	Uout = 1,35V ±200mV	***4,5KHz***	***Uout = 2,15V ±200mV***
TRR/TRL:	10,0KHz	Uout = 1,55V ±200mV	***4,5KHz***	***Uout = 0,7V ±200mV***
MFR/MFL:	1,0KHz	Uout = 1,6V ±200mV	***900Hz***	***Uout = 3,4V ±200mV***
MRR/MRL:	1,0KHz	Uout = 0V +100mV	***900Hz***	***Uout = 0V +100mV***
WFR/WFL:	170Hz	Uout = 6,75V ±300mV	***170Hz***	***Uout = 7,2V ±300mV***
WRR/WRL:	170Hz	Uout = 1,72V ±300mV	***170Hz***	***Uout = 2,4V ±300mV***
SW 1/2/3/4:	40Hz	Uout = 9,35V ±300mV	***25Hz***	***Uout = 15,3V ±300mV***

Frequency response TFR/TFL

Digital Generator:	5 % Full Scale		
2,0KHz	Uout = -17dB ±1,5dB	***500Hz***	***Uout = -18dB ±1,5dB***
1,5KHz	Uout = -1,4dB ±0,5dB	***1,5KHz***	***Uout = -8,7dB ±0,5dB***
19,0KHz	Uout = -0,5dB ±0,5dB	***4KHz***	***Uout = -0,5dB ±0,5dB***

Frequency response TRR/TRL

Digital Generator:	5 % Full Scale		
1,0KHz	Uout = -27,3dB ±1,5dB	***1KHz***	***Uout = -13,6dB ±1,5dB***
2,0KHz	Uout = -8,8dB ±1,5dB	***4KHz***	***Uout = -0,15dB ±0,5dB***
5,0KHz	Uout = -0,5dB ±0,5dB	***9KHz***	***Uout = -2,3dB ±0,5dB***
19,0KHz	Uout = -0,7dB ±0,5dB	***15KHz***	***Uout= -0,3dB ±0,5dB***

Frequency response MFR/MFL

Digital Generator:	5 % Full Scale		
500Hz	Uout = -6,8dB ±1,5dB	***200Hz***	***Uout = -19,5dB ±1,5dB***
1,0KHz	Uout = 0dB ±0,5dB	***900Hz***	***Uout = 0dB ±0,5dB***
2,0KHz	Uout = -6,5dB ±0,5dB	***2KHz***	***Uout = -6,8dB ±1,0dB***
6,0KHz	Uout = -10,5dB ±1,5dB	***5KHz***	***Uout = -14,1dB ±1,5dB***

Frequency response WFR/WFL

Digital Generator:	5 % Full Scale		
40Hz	Uout = -13,6dB ±1,5dB	***40Hz***	***Uout = -20,8dB ±1,5dB***
170Hz	Uout = 0dB ±0,5dB	***170Hz***	***Uout = 0dB ±0,5dB***
350Hz	Uout = -4,2dB ±0,5dB	***400Hz***	***Uout = -1,2dB ±0,5dB***
1,0KHz	Uout = -15,8dB ±1,5dB	***1KHz***	***Uout = -12,8dB ±1,5dB***

Frequency response WRR/WRL

Digital Generator:	5 % Full Scale		
40Hz	Uout = -9,2dB ±1,5dB	***40Hz***	***Uout = -14,5dB ±1,5dB***
170Hz	Uout = 0dB ±0,5dB	***170Hz***	***Uout = 0dB ±0,5dB***
500Hz	Uout = +2,0dB ±0,5dB	***500Hz***	***Uout = +3,1dB ±0,5dB***
1,6KHz	Uout = -3,4dB ±0,5dB	***2KHz***	***Uout = -10,1dB ±1,5dB***

Frequency response SW1/2/3/4

Digital Generator:	5 % Full Scale		
20Hz	Uout = -1,9dB ±1,5dB	***20Hz***	***Uout = -0,25dB ±1,0dB***
60Hz	Uout = -2,2dB ±1,5dB	***60Hz***	***Uout = -5,0dB ±1,5dB***
120hz	Uout = -15,6dB ±1,5dB	***120Hz***	***Uout = -19,6dB ±1,5dB***

Distortion measurement WRR/WRL

Generator voltage : 5 % Full Scale/0,5KHz, D < 0,4%

Crosstalk

Use bandpass filter

Digital Generator:	5 % Full Scale			
TFR/TFL, TRR/TRL:	10,0KHz	< -40dB	***4,5KHz***	***< -40dB***
MFR/MFL:	1,0KHz	< -50dB	***900Hz***	***< -50dB***
WFR/WFL, WRR/WRL:	170Hz	< -50dB	***170Hz***	***< -50dB***

Channel differences

Digital Generator:	5 % Full Scale			
TFR/TFL, TRR/TRL:	10,0KHz	D = 0dB ±1dB	***4,5KHz***	***D = 0dB ±1dB***
MFR/MFL:	1,0KHz	D = 0dB ±1dB	***900Hz***	***D = 0dB ±1dB***
WFR/WFL, WRR/WRL:	170Hz	D = 0dB ±1dB	***170Hz***	***D = 0dB ±1dB***

Ventilator test:

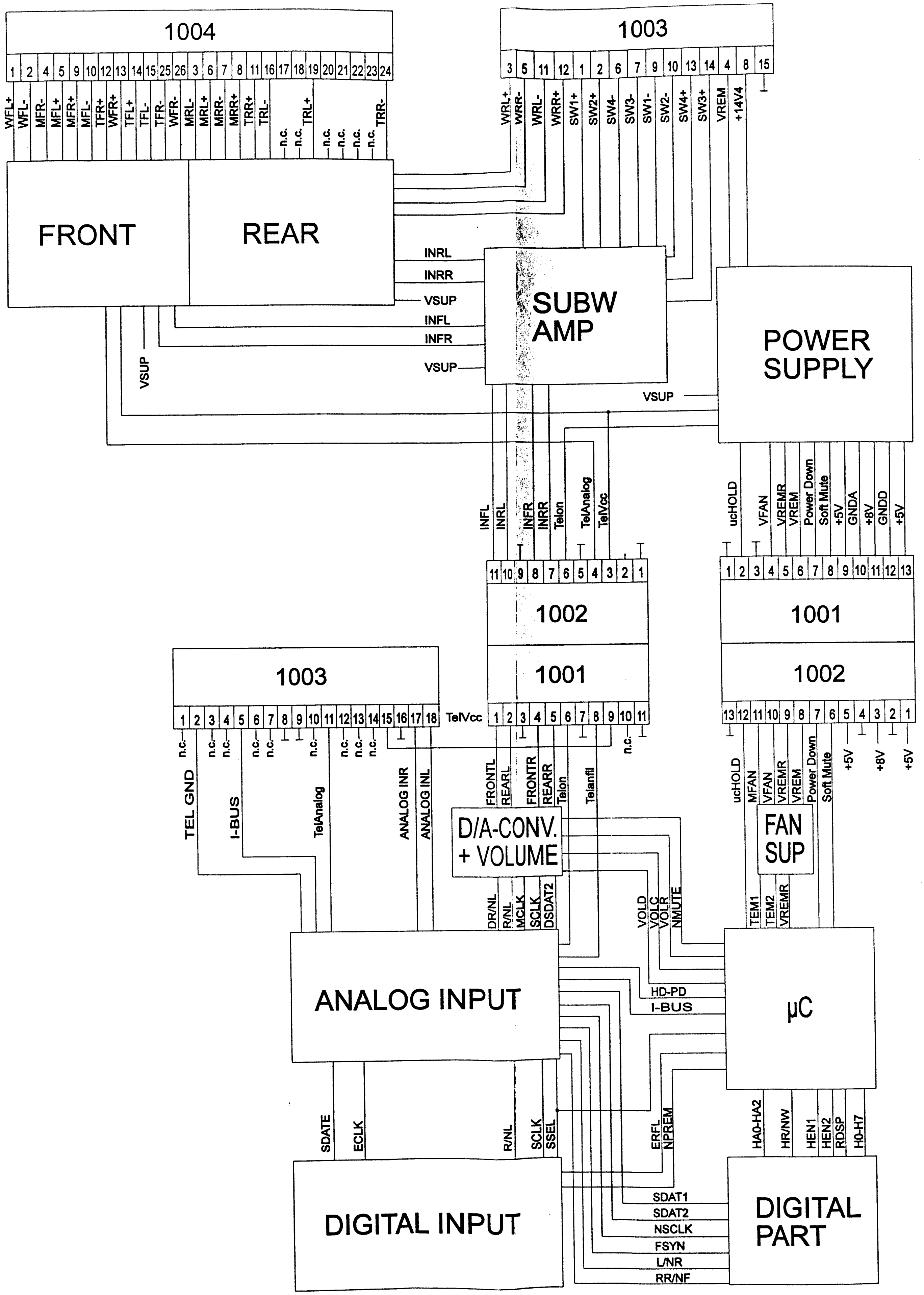
rotation direction right, the ventilator sucks into housing

Power supply checks

Connect set to V bat = 14,4 V and V rem = 12 V unless otherwise stated. Measurements with no signal at line in.

- All output lines of analog PWB (connectors 1003 + 1004) should have 7,0 V DC.

– Connector 1001	pin4:	14,0 V
	pin7:	5,0 V / 0,0 V (V bat < 8,1 V)
	pin9:	5,0 V
	pin 11:	8,5 V
	pin 13:	5,0 V
– Measuring points	M105:	4,7 V
	M106:	5,1 V
	M109:	13,8 V / 3,0 V (soft mute low)
	M116:	13,5 V
	M117:	0,7 V
	M126 – M129:	14,4 V
	M200 – M601:	4,2 V


1004
1 2 4 5 9 10 12 13 14 15 25 26 3 6 7 8 11 16 17 18 19 20 21 22 23 24
WFL+
WFL-
MFR-
MFL+
MFR+
MFL-
TFR+
WFR+
TFL+
TFL-
TFR-
WFR-
MRL-
MRL+
MRR-
MRR+
TRR+
TRL-
n.c.
n.c.
TRL+
n.c.
n.c.
n.c.
n.c.
TRR-
1003
3 5 11 12 1 2 6 7 9 10 13 14 4 8 15
WRL+
WRR-
WRL-
WRR+
SW1+
SW2+
SW4-
SW3-
SW1-
SW2-
SW4+
SW3+
VREM
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REAR
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INRR
VSUP
INFL
INFR
VSUP
VSUP
SUBW AMP
POWER SUPPLY
VSUP
INFL
INRL
INFR
INRR
Telon
TelAnalog
TelVcc
ucHOLD
VFAN
VREMR
VREM
Power Down
Soft Mute
+5V
GNDA
+8V
GNDD
+5V
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1002
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1003
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TelVcc
1 2 3 4 5 6 7 8 9 10 11
n.c.
n.c.
n.c.
n.c.
n.c.
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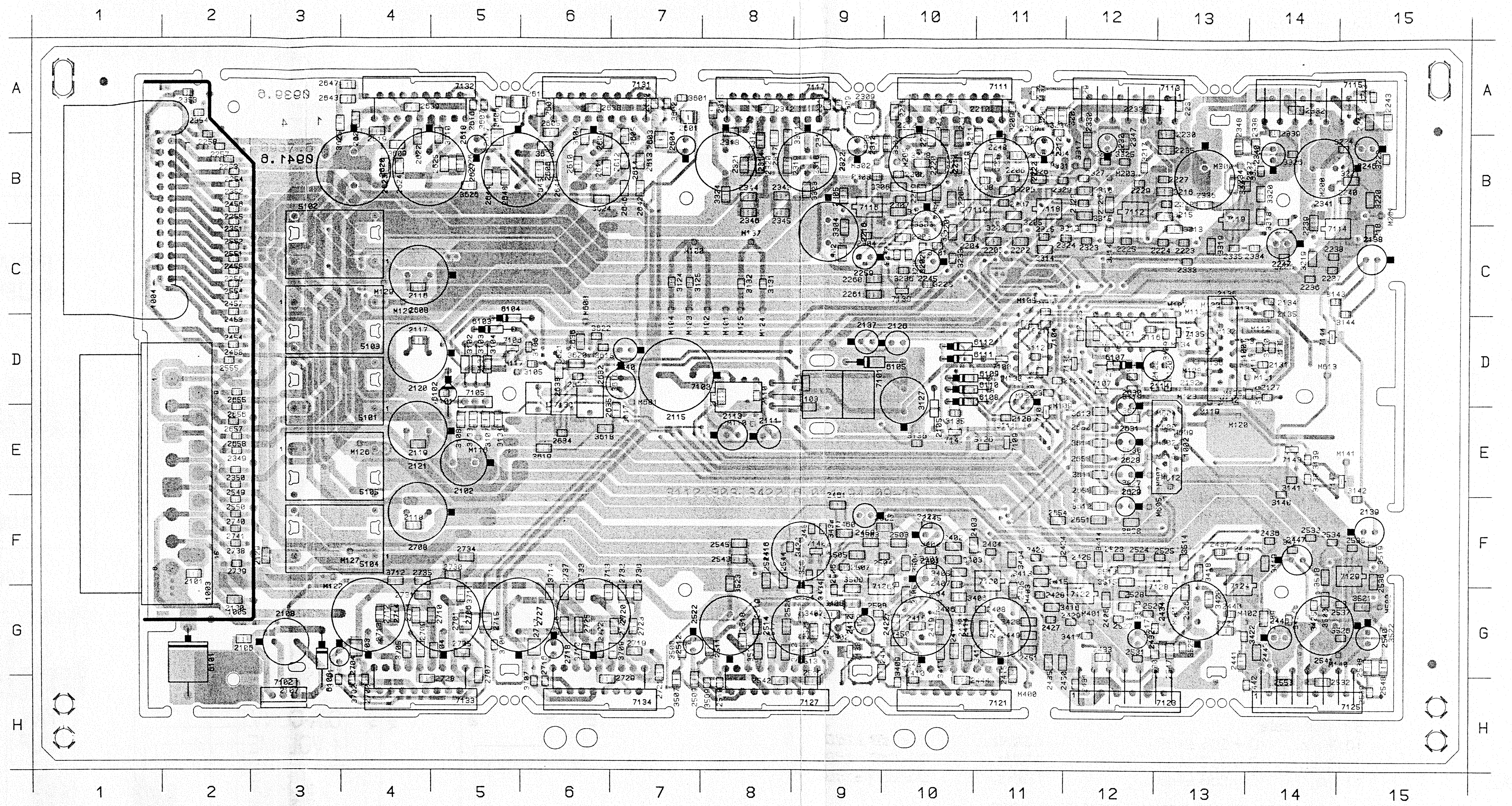
n.c.
n.c.
n.c.
n.c.
TEL GND
I-BUS
TelAnalog
ANALOG INR
ANALOG INL
FRONTL
REARL
FRONTR
REARR
Telon
Telanfil
n.c.
ucHOLD
MFAN
VFAN
VREMR
VREM
Power Down
Soft Mute
+5V
+8V
+5V
D/A-CONV. + VOLUME
FAN SUP
DR/NL
R/NL
MCLK
SCLK
DSDAT2
VOLD
VOLC
VOLR
NMUTE
TEM1
TEM2
VREMR
ANALOG INPUT
HD-PD
I-BUS
µC
SDATE
ECLK
R/NL
SCLK
SSEL
ERFL
NPREM
HA0-HA2
HR/NW
HEN1
HEN2
RDSP
H0-H7
DIGITAL INPUT
SDAT1
SDAT2
NSCLK
FSYN
L/NR
RR/NF
DIGITAL PART

ANALOG PWB



1001 D 13
1002 E 13
1003 E 1
1004 B 2
1005 D 2
2101 F 2
2102 E 5
2103 E 9
2104 D 9
2105 D 10
2106 G 2
2107 H 3
2108 G 3
2109 D 8
2110 D 8
2111 E 8
2112 D 11
2113 E 8
2114 D 13
2115 D 7
2116 C 4
2117 D 4
2118 F 4
2119 E 4
2120 D 4
2121 E 4
2122 D 12
2123 D 11
2124 D 12
2125 D 12
2126 D 10
2127 D 14
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2129 F 3
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2137 D 9
2138 C 15
2139 F 15
2201 C 10
2202 C 11
2203 C 11
2204 C 10
2205 B 10
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2209 A 11
2210 A 11
2211 B 11
2212 B 11
2213 A 10
2214 B 10
2215 A 10
2216 C 9
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2218 B 10
2219 B 10
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2243 A 15
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2247 C 14
2248 B 11
2249 B 10
2250 B 11
2251 B 10
2253 B 2
2254 B 2
2255 B 2
2256 C 2
2257 B 2
2258 B 2
2259 C 9
2260 C 9
2261 C 9
2302 C 9
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2315 A 8
2317 B 8
2318 B 9
2319 B 8
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2322 B 9
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2325 C 11
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2327 B 12
2328 B 12
2329 B 11
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2331 B 12
2332 A 14
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2334 C 14
2335 C 13
2336 B 13
2337 B 13
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2346 B 8
2347 B 12
2348 B 13
2349 E 2
2350 E 2
2351 B 2
2352 B 2
2353 A 2
2354 A 2
2401 F 10
2402 F 10
2403 F 10
2404 F 11
2405 G 11
2406 G 10
2407 F 10
2408 G 11
2409 G 9
2410 H 10
2411 G 9
2412 G 9
2413 G 11
2414 G 11
2415 G 11
2416 F 9
2417 G 10
2418 G 10
2419 G 10
2420 G 10
2421 G 11
2422 G 10
2423 F 11
2424 F 11
2425 F 12
2426 G 12
2427 G 11
2428 G 11
2429 G 12
2430 G 11
2431 H 12
2432 G 12
2433 G 12
2434 G 13
2435 G 11
2436 F 14
2437 F 13
2438 F 13
2439 G 14
2440 G 13
2441 G 13
2442 H 14
2443 G 14
2444 H 10
2445 F 10
2446 G 14
2447 F 14
2448 G 10
2449 G 11
2450 G 10
2451 G 11
2453 C 2
2454 D 2
2455 C 2
2456 B 2
2457 C 2
2458 D 2
2459 F 9
2460 F 9
2461 F 9
2502 F 10
2503 F 10
2504 F 10
2505 G 10
2506 G 9
2507 F 9
2508 G 9
2509 H 7
2510 H 8
2511 G 8
2512 G 7
2513 G 9
2514 G 9
2515 H 9
2517 G 8
2518 G 8
2519 G 8
2520 G 8
2521 G 9
2522 G 8
2523 F 12
2524 F 12
2525 F 13
2526 G 13
2527 G 12
2528 G 12
2529 G 12
2530 G 13
2531 G 12
2532 H 14
2533 F 14
2534 F 14
2535 F 15
2536 F 15
2537 G 15
2538 G 15
2539 H 15
2540 G 15
2541 G 14
2542 H 8
2543 F 8
2544 F 8
2545 F 8
2546 F 8
2547 G 13
2548 G 15
2549 E 2
2550 F 2
2551 C 2
2552 C 2
2553 H 14
2554 C 2
2555 D 2
2601 A 7
2602 A 7
2603 B 7
2604 B 7
2605 A 6
2606 B 5
2607 A 6
2608 C 4
2609 B 6
2610 B 6
2611 B 6
2612 B 7
2613 B 7
2614 B 6
2615 A 5
2616 A 5
2617 B 5
2618 B 5
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2621 A 4
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2634 E 6
2635 D 6
2636 D 6
2637 D 6
2638 A 6
2639 A 4
2640 D 7
2641 B 6
2642 B 7
2643 A 4
2644 B 5
2645 B 6
2646 B 7
2647 A 4
2648 B 5
2650 E 12
2651 F 12
2652 E 12
2653 E 12
2654 F 11
2655 D 2
2656 E 2
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2658 E 2
2701 G 5
2702 H 4
2703 G 4
2704 G 3
2705 G 5
2706 G 5
2707 H 5
2708 F 4
2709 G 4
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2711 G 4
2712 G 4
2713 G 4
2714 G 4
2715 G 5
2716 H 6
2717 G 6
2718 G 6
2719 G 7
2720 G 6
2721 G 7
2722 G 6
2723 G 7
2724 G 7
2725 G 6
2726 G 6
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2728 H 4
2729 H 6
2730 F 5
2731 G 4
2732 G 7
2733 G 6
2734 F 5
2735 F 4
2736 G 7
2737 G 6
2738 F 2
2739 F 2
2740 F 2
2741 F 2
3101 D 5
3102 D 5
3103 D 5
3104 D 5
3105 D 6
3106 D 6
3107 E 5
3108 E 5
3109 D 13
3110 D 12
3111 E 11
3112 D 11
3113 D 11
3114 C 11
3115 D 11
3116 D 12
3117 D 10
3118 D 10
3119 D 12
3120 D 13
3121 D 12
3122 D 12
3123 D 11
3124 C 7
3125 C 7
3126 E 11
3127 E 10
3129 D 10
3130 D 14
3131 C 8
3132 C 8
3133 E 5
3134 E 5
3135 E 10
3136 E 10
3137 D 5
3138 E 14
3139 E 14
3140 E 14
3141 E 14
3142 F 15
3143 C 14
3144 C 15
3199 D 14
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3203 C 11
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3224 B 15
3225 B 14
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3227 B 11
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3229 A 12
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3319 C 13
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3324 B 8
3325 B 12
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3526 G 15
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3605 B 7
3606 A 5
3607 A 5
3609 B 4
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3613 E 12
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3616 D 6
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3618 E 6
3619 E 6
3620 D 6
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3622 D 6
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3626 B 5
3627 E 12
3628 F 12
3629 E 12
3630 E 12
3701 H 3
3702 H 4
3704 G 5
3705 G 4
3706 G 5
3707 H 6
3709 G 7
3710 G 6
3711 G 5
3712 F 4
3713 G 6
3714 G 6
5101 D 3
5102 C 3
5103 D 3
5104 F 3
5105 E 3
6101 G 2
6102 D 5
6103 D 5
6104 D 5
6105 D 9
6106 G 3
6107 D 12
6108 D 10
6109 D 10
6110 D 10
6111 D 10
6112 D 10
7100 D 11
7101 D 9
7102 H 3
7103 D 8
7104 D 11
7105 D 5
7106 D 5
7107 D 12
7108 E 11
7109 E 11
7110 B 11
7111 A 10
7112 B 12
7113 A 12
7114 C 14
7115 A 14
7116 B 9
7117 A 8
7118 B 11
7119 B 13
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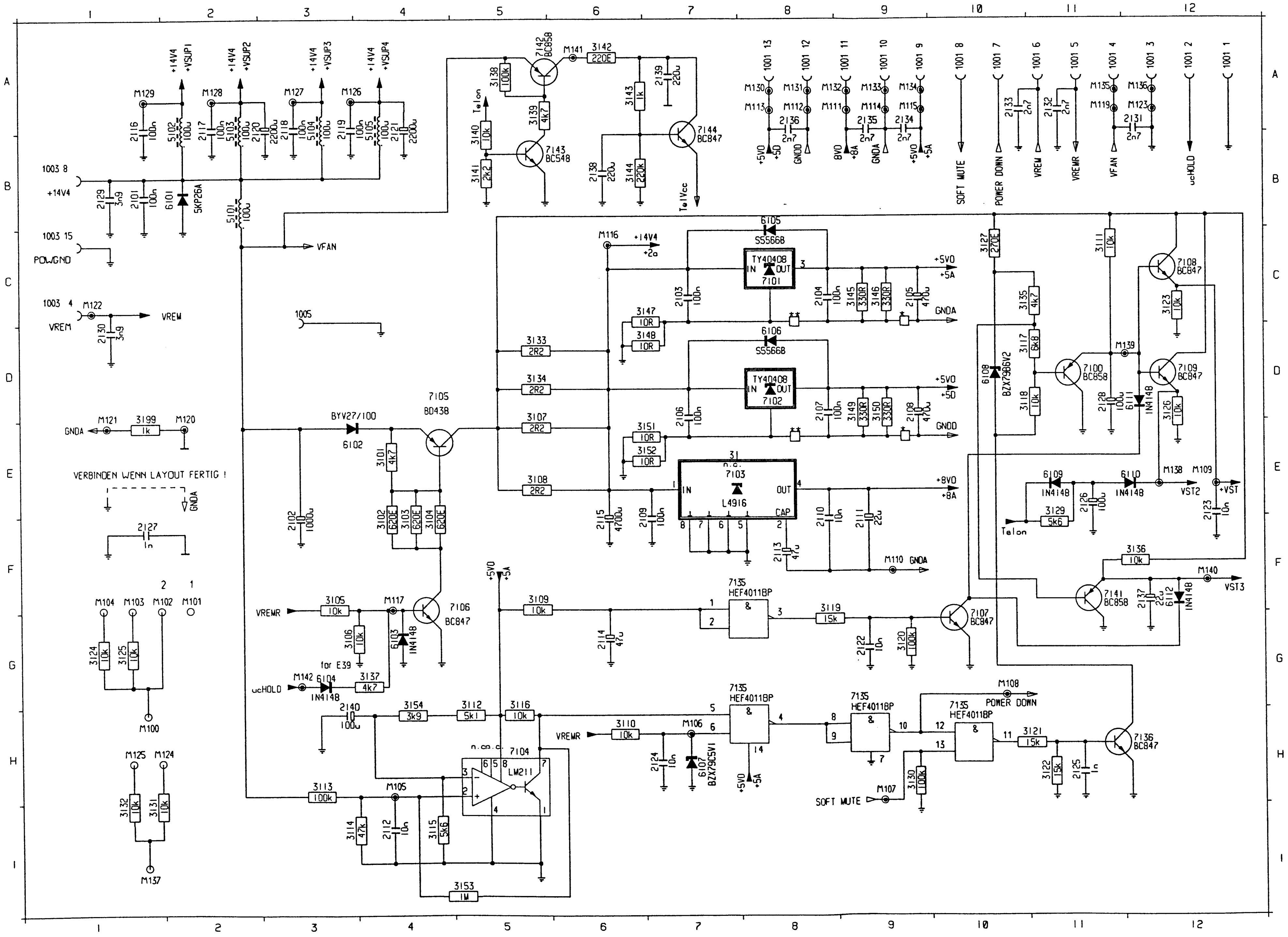
7121 H 10
7122 G 12
7123 H 12
7124 F 13
7125 H 14
7126 F 9
7127 H 8
7128 F 13
7129 F 15
7130 E 6
7131 A 6
7132 A 4
7133 H 4
7134 H 6
7135 D 12
7136 D 12
7137 A 11
7138 G 9
7139 C 10
7140 F 9
7141 E 10
7142 E 15
7143 E 14
7144 D 14
M100 C 7
M101 C 8
M102 C 8
M103 C 7
M104 C 7
M105 C 11
M106 D 12
M107 C 13
M108 D 13
M109 D 11
M110 E 8
M111 D 13
M112 D 13
M113 D 13
M114 D 13
M115 D 13
M116 E 5
M117 D 5
M119 D 13
M120 E 13
M121 D 14
M122 F 3
M123 D 13
M124 C 8
M125 C 8
M126 E 4
M127 F 4
M128 C 4
M129 C 4
M130 C 13
M131 D 13
M132 D 13
M133 D 13
M134 D 13
M135 D 13
M136 D 13
M137 C 8
M138 D 11
M139 D 11
M140 G 15
M141 E 15
M142 D 13
M200 B 14
M201 B 15
M203 B 12
M204 B 11
M205 B 10
M300 B 13
M301 B 12
M302 B 9
M400 H 11
M401 G 12
M402 G 13
M403 G 11
M404 G 10
M500 G 15
M501 G 13
M502 G 9
M600 D 6
M601 D 7
M602 E 12
M604 E 12
M605 F 12
M607 E 12
M608 E 12
M609 E 13
M610 E 12
M611 E 13
M612 E 13
M613 D 14

POWER SUPPLY

1001	A12
1001	A12
1001	A12
1001	A11
1001	A11
1001	A11
1001	A10
1001	A10
1001	A 9
1001	A 9
1001	A 9
1001	A 8
1001	A 8
1003	C 1
1003	B 1
1003	C 1
1005	C 3
2101	B 1
2102	F 3
2103	C 7
2104	C 8
2105	C 9
2106	D 7
2107	D 8
2108	D 9
2109	F 7
2110	F 8
2111	F 9
2112	I 4
2113	F 8
2114	G 6
2115	F 6
2116	A 1
2117	A 2
2118	A 3
2119	A 3
2120	A 3
2121	A 4
2122	G 9
2123	E12
2124	H 7
2125	H11
2126	E11
2127	F 1
2128	D11
2129	B 1
2130	D 1
2131	A12
2132	A11
2133	A10
2134	A 9
2135	A 9
2136	A 8
2137	F12
2138	B 6
2139	A 7
2140	H 3
3101	E 4
3102	F 4
3103	F 4
3104	F 4
3105	F 3
3106	G 3
3107	D 5
3108	E 5
3109	F 5
3110	H 6
3111	C11
3112	G 5
3113	H 3
3114	I 3
3115	I 4
3116	G 5
3117	D10
3118	D10
3119	F 8
3120	G 9
3121	H11
3122	H11
3123	C12
3124	G 1
3125	G 1
3126	D12
3127	C10
3129	E11
3130	H 9
3131	I 1
3132	I 1
3133	D 5
3134	D 5
3135	C10
3136	F12
3137	G 4
3138	A 5
3139	A 5
3140	B 5
3141	B 5
3142	A 6
3143	A 6
3144	B 6
3145	C 9
3146	C 9
3147	C 7
3148	D 7
3149	D 9
3150	D 9
3151	E 7
3152	E 7
3153	I 5
3154	G 4
3199	D 1
5101	B 2
5102	A 2
5103	A 2
5104	A 3
5105	A 4
6101	B 2
6102	E 3
6103	G 4
6104	G 3
6105	B 8
6106	D 8
6107	H 7
6108	D10
6109	E11
6110	E12
6111	D12
6112	F12
7100	D11
7101	C 8
7102	D 8
7103	E 8
7104	H 5
7105	D 4
7106	F 4
7107	G10
7108	C12
7109	D12
7135	F 7
7135	G 7
7135	G 9
7135	H10
7136	H12
7141	F11
7142	A 5
7143	B 5
7144	B 7
M100	H 1
M101	F 2
M102	F 1
M103	F 1
M104	F 1
M105	H 4
M106	H 7
M107	H 9
M108	G10
M109	E12
M110	F 9
M111	A 8
M112	A 8
M113	A 8
M114	A 9
M115	A 9
M116	C 6
M117	F 4
M119	A11
M120	D 2
M121	D 1
M122	C 1
M123	A12
M124	H 1
M125	H 1
M126	A 3
M127	A 3
M128	A 2
M129	A 1
M130	A 8
M131	A 8
M132	A 8
M133	A 9
M134	A 9
M135	A11
M136	A12
M137	I 1
M138	E12
M139	D11
M140	F12
M141	A 6
M142	G 3



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A
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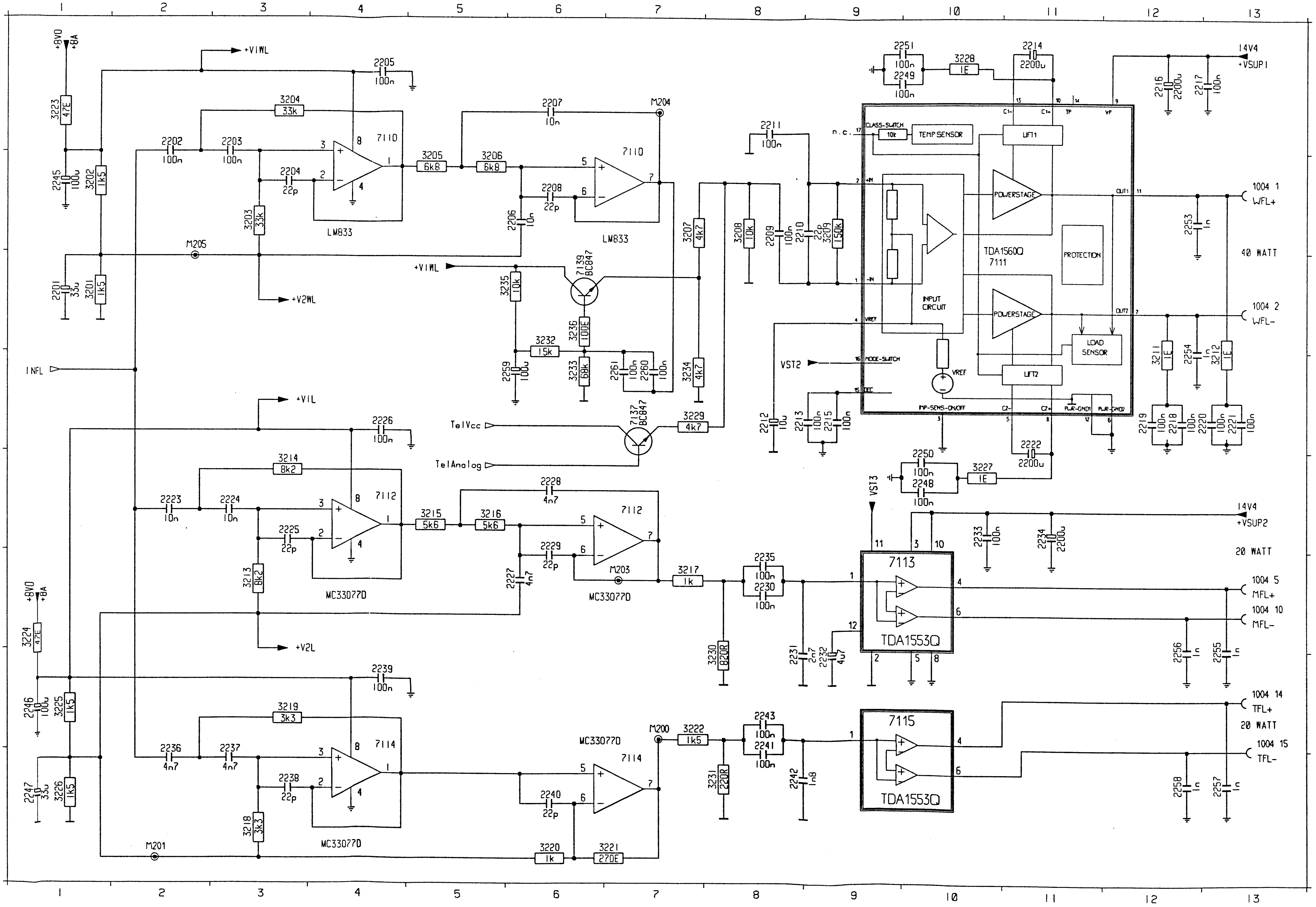
F
G
H
I
+14V4
+VSUP1
+VSUP2
+VSUP3
+VSUP4
M129
M128
M127
M126
1003 8
1003 15
POWGND
1003 4
M122
VREM
1005
M121
3199
1k
M120
GNDA
VERBINDEN WENN LAYOUT FERTIG !
2127
1n
M104
M103
M102
M101
M100
M125
M124
M137
5101
6101
5KP26A
VFAN
BYV27/100
6102
7105
BD438
7142
BC858
M141
3142
220E
7143
BC548
7144
BC847
TelVcc
Telon
M116
6105
SS5668
TY40408
IN
OUT
7101
6106
7102
+5V0
+5A
+5D
GNDA
GNDD
7103
L4916
+8V0
+8A
CAP
M110 GNDA
7135
HEF4011BP
7106
BC847
VREMR
M117
3105
10k
for E39
ucHOLD
M142
6104
1N4148
3137
4k7
2140
100u
3154
3k9
3112
5k1
3116
10k
3110
M106
6107
BZX79C5V1
7104
LM211
3113
100k
M105
3114
47k
3115
5k6
3153
1M
7107
BC847
SOFT MUTE
M107
M108
POWER DOWN
7136
BC847
3121
15k
6108
BZX79C6V2
7100
BC858
7108
BC847
7109
BC847
M139
6109
6110
1N4148
M138
M109
VST2
+VST
3129
5k6
3136
10k
M140
7141
BC858
VST3
6112
6111
1001 13
1001 12
1001 11
1001 10
1001 9
1001 8
1001 7
1001 6
1001 5
1001 4
1001 3
1001 2
1001 1
M130
M131
M132
M133
M134
M113
M112
M111
M114
M115
M135
M136
M119
M123
8V0
+8A
GNDD
VREM
VREMR
VFAN
ucHOLD

Deviations in assembling

Pos.	/23	/23B	/23E
2140	——	100U	100U
3112	5K1	47K	47K
3115	5K6	56K	56K
3124	10K	——	10K
3125	10K	——	——
3131	10K	——	——
3132	10K	——	——
3137	——	——	4K7
3145	——	330R	330R
3146	——	330R	330R
3147	0R	10R	10R
3148	——	10R	10R
3149	——	330R	330R
3150	——	330R	330R
3151	0R	10R	10R
3152	——	10R	10R
3153	——	1M	1M
3154	0R	3K9	3K9
6104	——	——	1N4148
7101	TY40408	L7805ABV	L7805ABV
7102	TY40408	L7805ABV	L7805ABV
*	0R	——	——
**	——	0R	0R

3 WAY AMPLIFIER FRONT LEFT

1004	B13
1004	C13
1004	F13
1004	F13
1004	G13
1004	G13
2201	C 1
2202	A 2
2203	A 3
2204	B 3
2205	A 4
2206	B 6
2207	A 6
2208	B 6
2209	B 8
2210	B 8
2211	A 8
2212	D 8
2213	D 8
2214	A11
2215	D 9
2216	A12
2217	A12
2218	D12
2219	D12
2220	D13
2221	D13
2222	D11
2223	E 2
2224	E 3
2225	E 3
2226	D 4
2227	F 6
2228	E 6
2229	E 6
2230	F 8
2231	G 8
2232	G 9
2233	E10
2234	E11
2235	F 8
2236	H 2
2237	H 3
2238	H 3
2239	G 4
2240	H 6
2241	G 8
2242	H 8
2243	G 8
2245	B 1
2246	G 1
2247	H 1
2248	E10
2249	A10
2250	E10
2251	A10
2253	B12
2254	C12
2255	F13
2256	F12
2257	H13
2258	H12
2259	D 6
2260	D 7
2261	D 7
3201	C 1
3202	B 1
3203	B 3
3204	A 3
3205	B 5
3206	B 5
3207	B 7
3208	B 8
3209	B 9
3211	C12
3212	C13
3213	F 3
3214	E 3
3215	E 5
3216	E 5
3217	F 7
3218	H 3
3219	G 3
3220	H 6
3221	H 7
3222	G 7
3223	A 1
3224	F 1
3225	G 1
3226	H 1
3227	E10
3228	A10
3229	D 7
3230	G 8
3231	H 8
3232	C 6
3233	D 6
3234	D 7
3235	C 6
3236	C 6
7110	A 4
7110	B 7
7111	C10
7112	E 4
7112	E 7
7113	F 9
7114	G 4
7114	H 7
7115	G 9
7137	D 7
7139	C 6
M200	G 7
M201	H 2
M203	F 7
M204	A 7
M205	B 2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13
A
B
C
D
E
F
G
H
+8V0
+8A
3223 47E
2245 100u
3202 1k5
2201 33u
3201 1k5
M205
INFL
+VIWL
2205 100n
3204 33k
2202 100n
2203 100n
2204 22p
3203 33k
7110
LM833
+V2WL
2207 10n
M204
3205 6k8
3206 6k8
2208 22p
2206 1n
+VIWL
3235 10k
7139 BC847
3236 100E
3232 15k
3233 68k
2259 100u
2261 100n
2260 100n
3234 4k7
3207 4k7
3208 10k
2209 100n
2210 22p
3209 150k
2211 100n
n.c.
TelVcc
TelAnalog
7137 BC847
3229 4k7
VST2
2212 10u
2213 100n
2215 100n
2251 100n
2249 100n
3228 1E
2214 2200u
CLASS-SWITCH
10k
TEMP SENSOR
LIFT1
POWERSTAGE
PROTECTION
TDA1560Q
7111
INPUT CIRCUIT
VREF
MODE-SWITCH
LOAD SENSOR
LIFT2
INP-SENS-ON/OFF
PWR-GND1
PWR-GND2
C1-
C1+
C2-
C2+
TP
VP
OUT1
OUT2
2250 100n
2248 100n
3227 1E
2222 2200u
14V4
+VSUP1
2216 2200u
2217 100n
1004 1
WFL+
2253 1n
40 WATT
1004 2
WFL-
3211 1E
2254 1n
3212 1E
2219 100n
2218 100n
2220 100n
2221 100n
+VIL
2226 100n
3214 8k2
2223 10n
2224 10n
2225 22p
3213 8k2
7112
MC33077D
+V2L
2228 4n7
3215 5k6
3216 5k6
2229 22p
2227 4n7
M203
3217 1k
3230 820R
2235 100n
2230 100n
2231 2n7
2232 4u7
VST3
7113
TDA1553Q
2233 100n
2234 2200u
14V4
+VSUP2
20 WATT
1004 5
MFL+
1004 10
MFL-
2256 1n
2255 1n
+8V0
+8A
3224 47E
2246 100u
3225 1k5
2247 33u
3226 1k5
2239 100n
3219 3k3
2236 4n7
2237 4n7
2238 22p
3218 3k3
7114
MC33077D
M201
M200
3222 1k5
2240 22p
3220 1k
3221 270E
2243 100n
2241 100n
3231 220R
2242 1n8
7115
TDA1553Q
1004 14
TFL+
20 WATT
1004 15
TFL-
2258 1n
2257 1n

DEVIATIONS IN ASSEMBLING

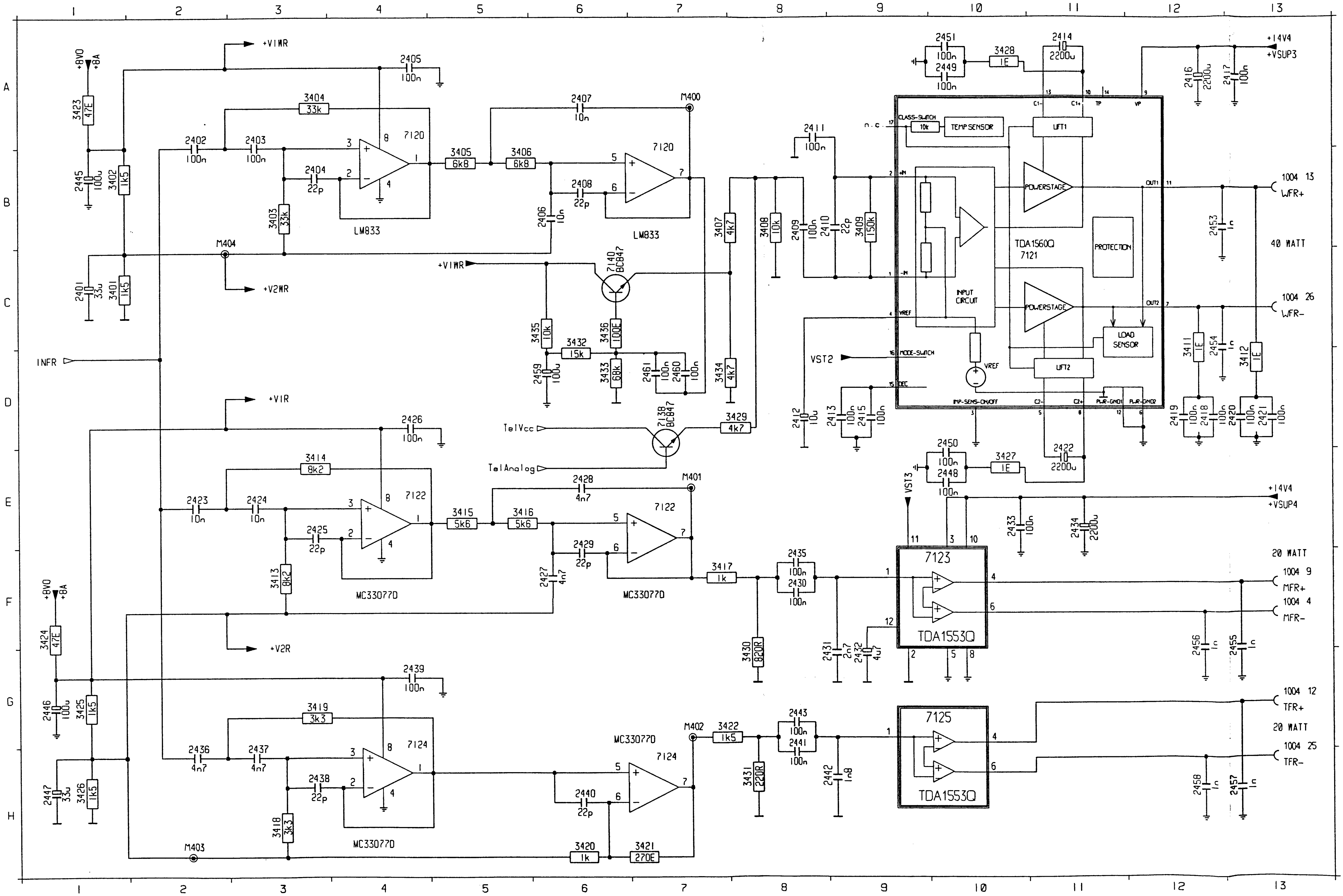
Pos.	/23	/23B	/23E
2209	100N	150N	150N
2211	100N	150N	150N
2242	1N8	1N8	10N
3203	33K	27K	12K
3204	33K	27K	12K
3205	6K8	47K	39K
3206	6K8	47K	39K
3209	150K	82K	82K
3213	8K2	16K	16K
3214	8K2	16K	16K
3215	5K6	18K	18K
3216	5K6	18K	18K
3218	3K3	12K	15K
3219	3K3	12K	15K
3220	1K	——	——
3221	270R	0R	0R
3230	——	820R	5K6
3231	——	220R	1K2

3 WAY AMPLIFIER FRONT RIGHT

1004	F13
1004	F13
1004	G13
1004	B13
1004	H13
1004	C13
2401	C 1
2402	A 2
2403	A 3
2404	B 3
2405	A 4
2406	B 6
2407	A 6
2408	B 6
2409	B 8
2410	B 9
2411	A 8
2412	D 8
2413	D 9
2414	A11
2415	D 9
2416	A12
2417	A13
2418	D12
2419	D12
2420	D13
2421	D13
2422	E11
2423	E 2
2424	E 3
2425	E 3
2426	D 4
2427	F 6
2428	E 6
2429	E 6
2430	F 8
2431	G 9
2432	G 9
2433	E10
2434	E11
2435	F 8
2436	H 2
2437	H 3
2438	H 3
2439	G 4
2440	H 6
2441	G 8
2442	H 9
2443	G 8
2445	B 1
2446	G 1
2447	H 1
2448	E10
2449	A10
2450	D10
2451	A10
2453	B12
2454	C12
2455	F13
2456	F12
2457	H13
2458	H12
2459	D 6
2460	D 7
2461	D 7
3401	C 1
3402	B 1
3403	B 3
3404	A 3
3405	B 5
3406	B 5
3407	B 7
3408	B 8
3409	B 9
3411	C12
3412	D13
3413	F 3
3414	E 3
3415	E 5
3416	E 5
3417	F 7
3418	H 3
3419	G 3
3420	H 6
3421	H 7
3422	G 7
3423	A 1
3424	F 1
3425	G 1
3426	H 1
3427	E10
3428	A10
3429	D 8
3430	G 8
3431	H 8
3432	C 6
3433	D 6
3434	D 7
3435	C 6
3436	C 6
7120	A 4
7120	B 7
7121	C10
7122	E 4
7122	E 7
7123	F 9
7124	G 4
7124	H 7
7125	G 9
7138	D 7
7140	C 6
M400	A 7
M401	E 7
M402	G 7
M403	H 2
M404	B 2

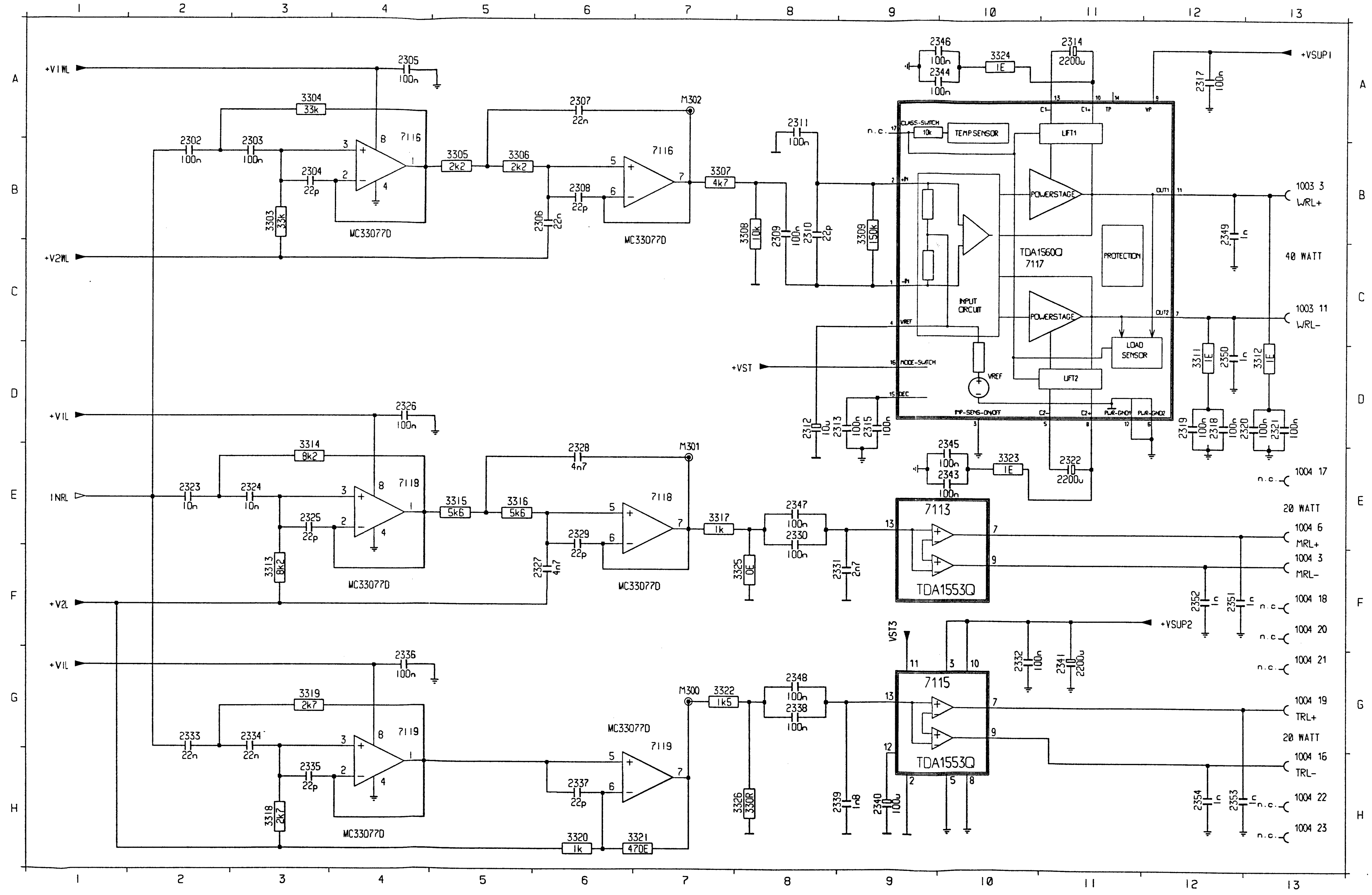
DEVIATIONS IN ASSEMBLING

Pos.	/23	/23B	/23E
2409	100N	150N	150N
2411	100N	150N	150N
2442	1N8	1N8	10N
3403	33K	27K	12K
3404	33K	27K	12K
3405	6K8	47K	39K
3406	6K8	47K	39K
3409	150K	82K	82K
3413	8K2	16K	16K
3414	8K2	16K	16K
3415	5K6	18K	18K
3416	5K6	18K	18K
3418	3K3	12K	15K
3419	3K3	12K	15K
3420	1K	—	—
3421	270R	0R	0R
3430	—	820R	5K6
3431	—	220R	1K2


1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G H
+V1WR
+V2WR
+V1R
+V2R
+8V0
+8A
INFR
M400
M401
M402
M403
M404
7120
LM833
7122
MC33077D
7124
TDA1560Q
7121
CLASS-SWITCH
TEMPSENSOR
POWERSTAGE
PROTECTION
INPUT CIRCUIT
LOAD SENSOR
MODE-SWITCH
VREF
VST2
VST3
7123
TDA1553Q
7125
7140
BC847
7138
TelVcc
TelAnalog
+14V4
+VSUP3
+VSUP4
1004 13
WFR+
40 WATT
1004 26
WFR-
20 WATT
1004 9
MFR+
1004 4
MFR-
1004 12
TFR+
1004 25
TFR-

3 WAY AMPLIFIER REAR LEFT

1003	B13
1003	C13
1004	F13
1004	E13
1004	H13
1004	E13
1004	F13
1004	G13
1004	F13
1004	G13
1004	H13
1004	H13
2302	B 2
2303	B 3
2304	B 3
2305	A 4
2306	B 6
2307	A 6
2308	B 6
2309	B 8
2310	B 8
2311	A 8
2312	D 8
2313	D 9
2314	A11
2315	D 9
2317	A12
2318	D12
2319	D12
2320	D13
2321	D13
2322	E11
2323	E 2
2324	E 3
2325	E 3
2326	D 4
2327	F 6
2328	E 6
2329	E 6
2330	E 8
2331	F 9
2332	G10
2333	G 2
2334	G 3
2335	H 3
2336	G 4
2337	H 6
2338	G 8
2339	H 9
2340	H 9
2341	G11
2343	E10
2344	A10
2345	E10
2346	A10
2347	E 8
2348	G 8
2349	B12
2350	D12
2351	F12
2352	F12
2353	H12
2354	H12
3303	B 3
3304	A 3
3305	B 5
3306	B 5
3307	B 7
3308	B 8
3309	B 9
3311	D12
3312	D13
3313	F 3
3314	E 3
3315	E 5
3316	E 5
3317	E 7
3318	H 3
3319	G 3
3320	H 6
3321	H 7
3322	G 7
3323	E10
3324	A10
3325	F 8
3326	H 8
7113	E 9
7115	G 9
7116	B 4
7116	B 7
7117	C10
7118	E 4
7118	E 7
7119	G 4
7119	G 7
M300	G 7
M301	E 7
M302	A 7



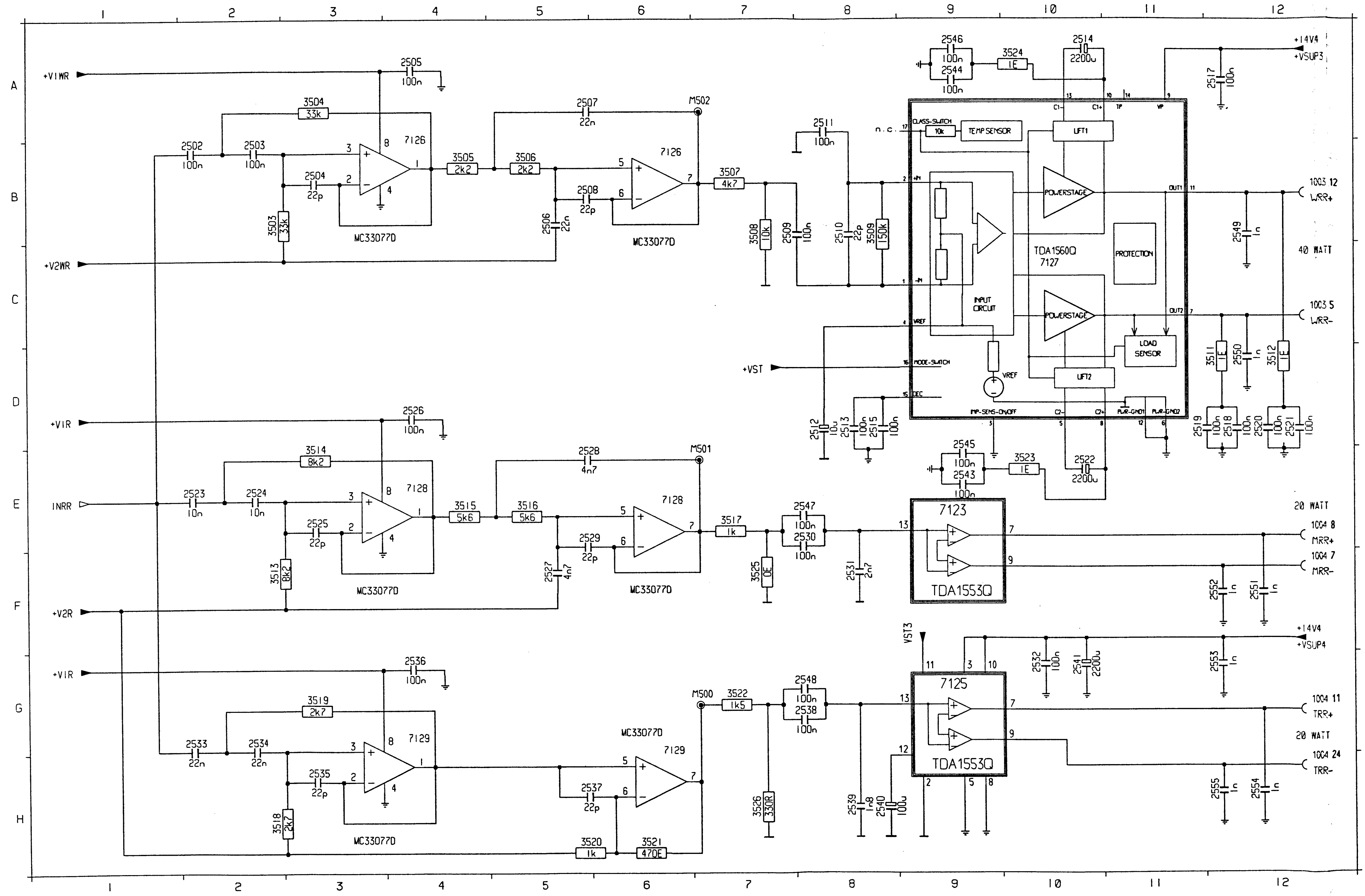
+V1WL
+V2WL
+V1L
INRL
+V2L
+VST
+VSUP1
+VSUP2
VST3
7116
7117
7118
7119
7113
7115
MC33077D
TDA1560Q
TDA1553Q
TEMP SENSOR
POWERSTAGE
PROTECTION
INPUT CIRCUIT
LOAD SENSOR
LIFT1
LIFT2
VREF
CLASS-SWITCH
MODE-SWITCH
M300
M301
M302
1003 3 WRL+
1003 11 WRL-
40 WATT
1004 17
1004 6 MRL+
1004 3 MRL-
20 WATT
1004 18
1004 20
1004 21
1004 19 TRL+
1004 16 TRL-
1004 22
1004 23
n.c.

DEVIATIONS IN ASSEMBLING

Pos.	/23	/23B	/23E
2309	100N	150N	150N
2311	100N	150N	150N
2323	10N	——	——
2324	10N	——	——
2325	22P	——	——
2326	100N	——	——
2327	4N7	——	——
2328	4N7	——	——
2329	22P	——	——
2330	100N	——	——
2331	2N7	100N	100N
2339	1N8	1N8	15N
2347	100N	——	——
3303	33K	15K	10K
3304	33K	15K	10K
3305	2K2	8K2	8K2
3306	2K2	8K2	8K2
3308	10K	3K3	2K2
3309	150K	82K	82K
3313	8K2	——	——
3314	8K2	——	——
3315	5K6	——	——
3316	5K6	——	——
3317	1K	——	——
3318	2K7	2K7	3K9
3319	2K7	2K7	3K9
3320	1K	——	——
3321	470R	0R	0R
3322	1K5	1K5	12K
3325	0R	——	——
3326	——	330R	1K2
7118	MC33077D	——	——

3 WAY AMPLIFIER REAR RIGHT

1003	C12
1003	B12
1004	F12
1004	E12
1004	G12
1004	H12
2502	B 2
2503	B 2
2504	B 3
2505	A 4
2506	B 5
2507	A 5
2508	B 5
2509	B 7
2510	B 8
2511	A 8
2512	D 8
2513	D 8
2514	A10
2515	D 8
2517	A12
2518	D12
2519	D11
2520	D12
2521	D12
2522	E10
2523	E 2
2524	E 2
2525	E 3
2526	D 4
2527	F 5
2528	E 5
2529	E 5
2530	E 8
2531	F 8
2532	G10
2533	G 2
2534	G 2
2535	H 3
2536	G 4
2537	H 5
2538	G 8
2539	H 8
2540	H 8
2541	G10
2543	E 9
2544	A 9
2545	E 9
2546	A 9
2547	E 8
2548	G 8
2549	B12
2550	D12
2551	F12
2552	F12
2553	G12
2554	H12
2555	H12
3503	B 2
3504	A 3
3505	B 4
3506	B 5
3507	B 7
3508	B 7
3509	B 8
3511	D12
3512	D12
3513	F 2
3514	E 3
3515	E 4
3516	E 5
3517	E 7
3518	H 2
3519	G 3
3520	H 5
3521	H 6
3522	G 7
3523	E10
3524	A10
3525	F 7
3526	H 7
7123	E 9
7125	G 9
7126	B 4
7126	B 6
7127	C10
7128	E 4
7128	E 6
7129	G 4
7129	G 6
M500	G 6
M501	E 6
M502	A 6

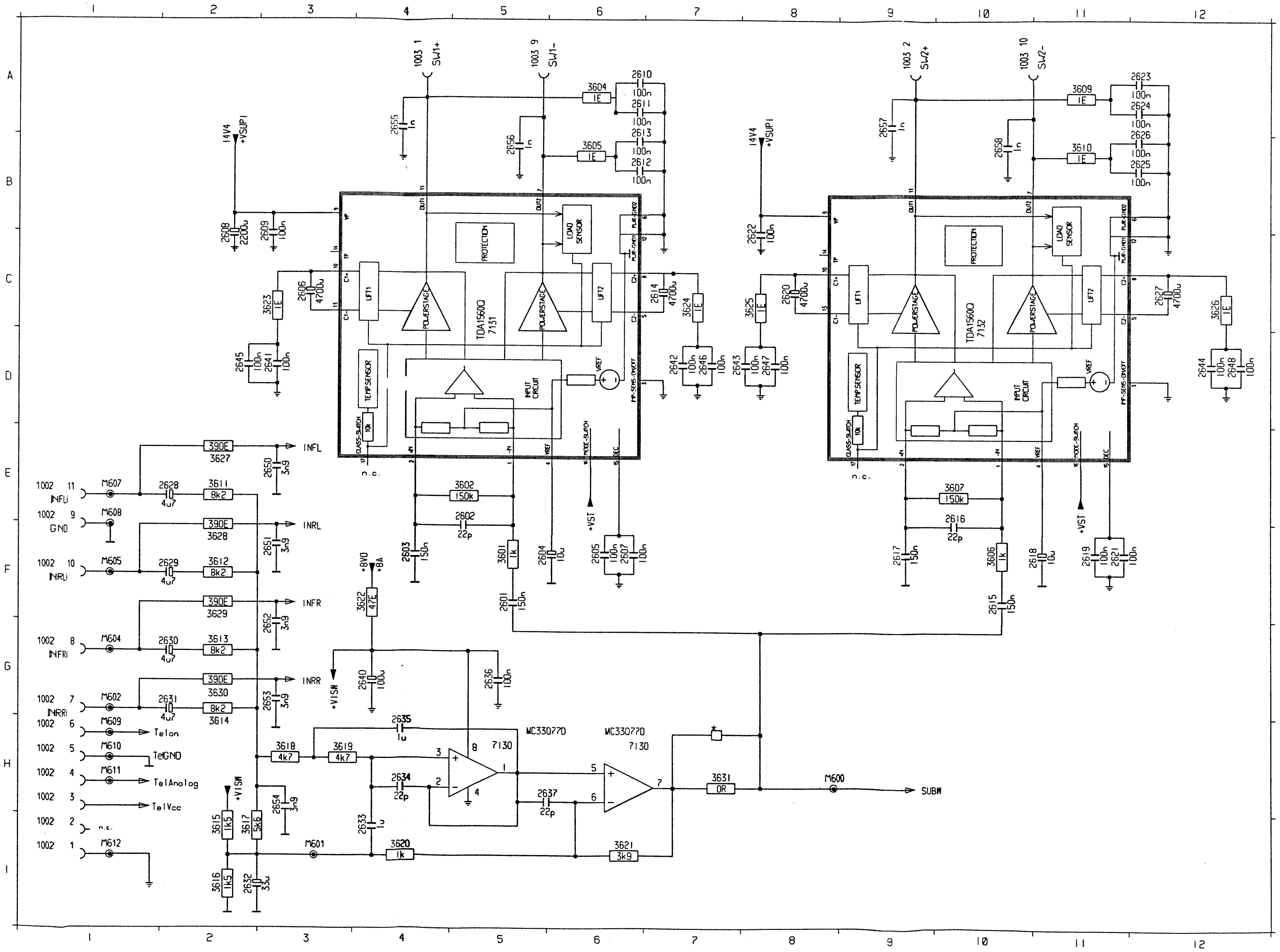

1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H
+V1WR
+V2WR
+V1R
INRR
+V2R
+VST
VST3
2505 100n
3504 33k
2502 100n
2503 100n
2504 22p
3503 33k
7126
MC33077D
3505 2k2
3506 2k2
2506 22n
2507 22n
M502
2508 22p
3507 4k7
3508 10k
2509 100n
2510 22p
3509 150k
2511 100n
n.c.
2546 100n
2544 100n
3524 1E
2514 2200u
2517 100n
+14V4
+VSUP3
CLASS-SWITCH
10k
TEMP SENSOR
LIFT1
POWERSTAGE
PROTECTION
TDA1560Q
7127
INPUT CIRCUIT
LOAD SENSOR
MODE-SWITCH
VREF
LIFT2
DEC
MP-SENS-ON/OFF
1003 12
WRR+
1003 5
WRR-
40 WATT
2549 1n
3511 1E
2550 1n
3512 1E
2519 100n
2518 100n
2520 100n
2521 100n
2512 10u
2513 100n
2515 100n
2545 100n
2543 100n
3523 1E
2522 2200u
2526 100n
3514 8k2
2523 10n
2524 10n
2525 22p
3513 8k2
7128
3515 5k6
3516 5k6
2527 4n7
2528 4n7
M501
2529 22p
3517 1k
2547 100n
2530 100n
3525 0E
2531 2n7
7123
TDA1553Q
20 WATT
1004 8
MRR+
1004 7
MRR-
2552 1n
2551 1n
+14V4
+VSUP4
2532 100n
2541 2200u
2553 1n
2536 100n
3519 2k7
2533 22n
2534 22n
2535 22p
3518 2k7
7129
MC33077D
2537 22p
M500
3522 1k5
2548 100n
2538 100n
3526 330R
2539 1n8
2540 100u
7125
TDA1553Q
1004 11
TRR+
20 WATT
1004 24
TRR-
2555 1n
2554 1n
3520 1k
3521 470E

DEVIATIONS IN ASSEMBLING

Pos.	/23	/23B	/23E
2509	100N	150N	150N
2511	100N	150N	150N
2523	10N	——	——
2524	10N	——	——
2525	22P	——	——
2526	100N	——	——
2527	4N7	——	——
2528	4N7	——	——
2529	22P	——	——
2530	100N	——	——
2531	2N7	100N	100N
2539	1N8	1N8	15N
2547	100N	——	——
3503	33K	15K	10K
3504	33K	15K	10K
3505	2K2	8K2	8K2
3506	2K2	8K2	8K2
3508	10K	3K3	2K2
3509	150K	82K	82K
3513	8K2	——	——
3514	8K2	——	——
3515	5K6	——	——
3516	5K6	——	——
3517	1K	——	——
3518	2K7	2K7	3K9
3519	2K7	2K7	3K9
3520	1K	——	——
3521	470R	0R	0R
3522	1K5	1K5	12K
3525	0R	——	——
3526	——	330R	1K2
7128	MC33077D	——	——

SUBWOOFER AMPLIFIER I

1002	I 1
1002	I 1
1002	H 1
1002	H 1
1002	H 1
1002	H 1
1002	G 1
1002	G 1
1002	E 1
1002	F 1
1002	E 1
1003	A 4
1003	A 9
1003	A 5
1003	A10
2601	F 5
2602	E 5
2603	F 4
2604	F 5
2605	F 6
2606	C 3
2607	F 6
2608	C 2
2609	C 3
2610	A 6
2611	A 6
2612	B 6
2613	B 6
2614	C 7
2615	F10
2616	E10
2617	F 9
2618	F11
2619	F11
2620	C 8
2621	F11
2622	C 8
2623	A12
2624	A12
2625	B12
2626	B12
2627	C12
2628	E 2
2629	F 2
2630	G 2
2631	G 2
2632	I 2
2633	I 4
2634	H 4
2635	H 4
2636	G 5
2637	H 6
2640	G 4
2641	D 3
2642	D 7
2643	D 7
2644	D12
2645	D 2
2646	D 7
2647	D 8
2648	D12
2650	E 3
2651	F 3
2652	G 3
2653	G 3
2654	H 3
2655	A 4
2656	B 5
2657	A 9
2658	B10
3601	F 5
3602	E 5
3604	A 6
3605	B 6
3606	F10
3607	E10
3609	A11
3610	B11
3611	E 2
3612	F 2
3613	G 2
3614	H 2
3615	I 2
3616	I 2
3617	I 2
3618	H 3
3619	H 3
3620	I 4
3621	I 6
3622	F 4
3623	C 3
3624	C 7
3625	C 8
3626	C12
3627	E 2
3628	F 2
3629	F 2
3630	G 2
3631	H 7
7130	H 5
7130	H 6
7131	D 5
7132	D10
M600	H 8
M601	I 3
M602	G 1
M604	G 1
M605	F 1
M607	E 1
M608	E 1
M609	H 1
M610	H 1
M611	H 1
M612	I 1

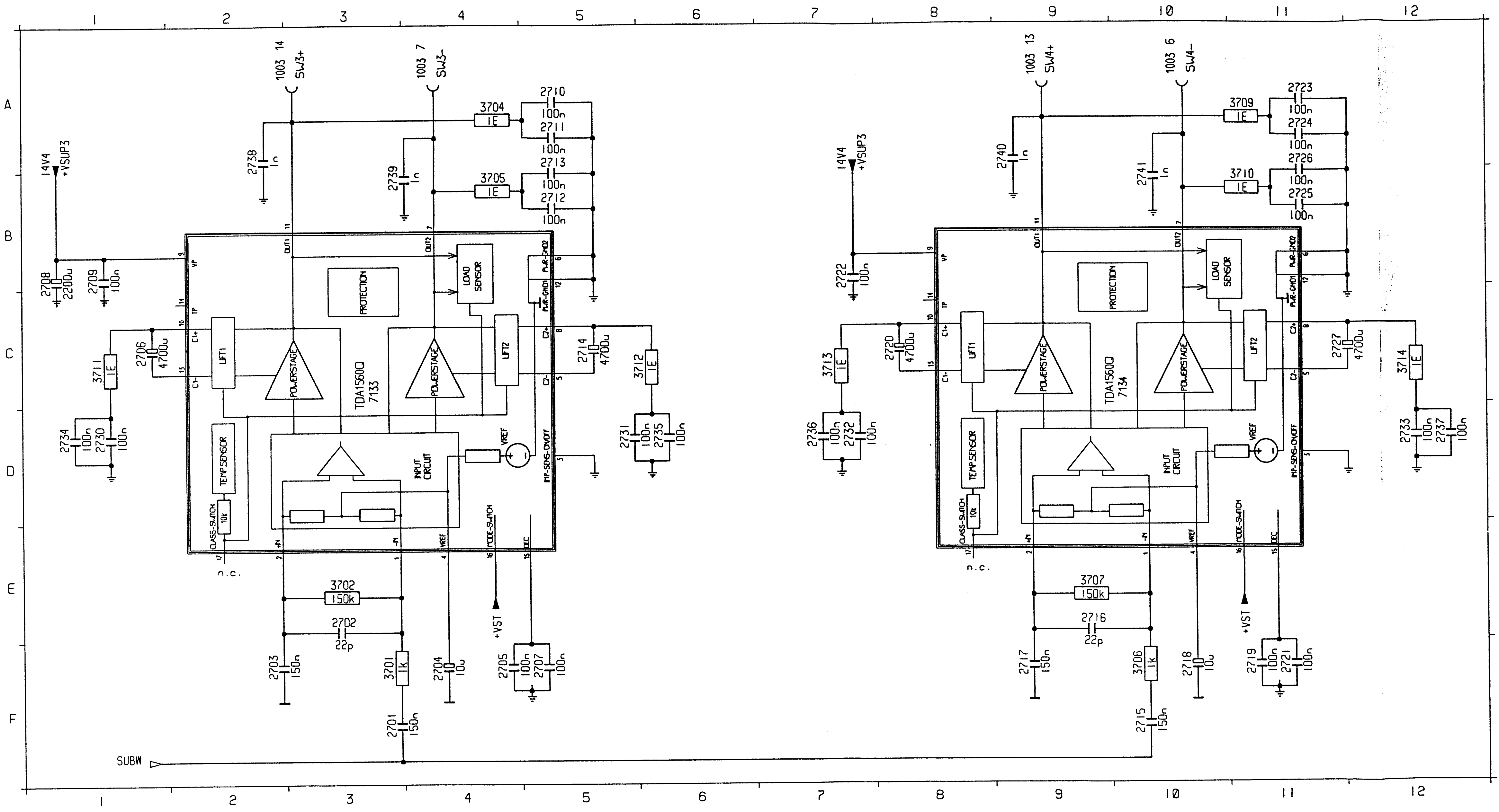

1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
I
1003 1 SW1+
1003 9 SW1-
1003 2 SW2+
1003 10 SW2-
14V4 +VSUP1
2608 2200u
2609 100n
2655 1n
2656 1n
2657 1n
2658 1n
3604 1E
3605 1E
3609 1E
3610 1E
2610 100n
2611 100n
2612 100n
2613 100n
2622 100n
2623 100n
2624 100n
2625 100n
2626 100n
PROTECTION
LOAD SENSOR
POWERSTAGE
LFT1
LFT2
TEMP SENSOR
INPUT CIRCUIT
VREF
CLASS-SWITCH
MODE-SWITCH
TDA1560Q 7131
TDA1560Q 7132
2606 4700u
2614 4700u
2620 4700u
2627 4700u
3623 1E
3624 1E
3625 1E
3626 1E
2645 100n
2641 100n
2642 100n
2646 100n
2643 100n
2647 100n
2644 100n
2648 100n
n.c.
390E 3627
INFL
390E 3628
INRL
390E 3629
INFR
390E 3630
INRR
2650 3n9
2651 3n9
2652 3n9
2653 3n9
2654 3n9
1002 11 INFLi M607
1002 9 GND M608
1002 10 INRLi M605
1002 8 INFRi M604
1002 7 INRRi M602
1002 6 M609 Telon
1002 5 M610 TelGND
1002 4 M611 TelAnalog
1002 3 TelVcc
1002 2 n.c.
1002 1 M612
2628 4u7
2629 4u7
2630 4u7
2631 4u7
3611 8k2
3612 8k2
3613 8k2
3614 8k2
3602 150k
2602 22p
2603 150n
3601 1k
2604 10u
+VST
2605 100n
2607 100n
3607 150k
2616 22p
2617 150n
3606 1k
2618 10u
2619 100n
2621 100n
2601 150n
2615 150n
+8V0 +8A
3622 47E
+VISW
2640 100u
2636 100n
2635 1u
MC33077D 7130
3618 4k7
3619 4k7
2634 22p
2633 1u
2637 22p
3615 1k5
3616 1k5
3617 5k6
2632 33u
M601
3620 1k
3621 3k9
*
3631 0R
M600
SUBW

DEVIATIONS IN ASSEMBLING

Pos.	/23	/23B	/23E
2601	150N	220N	220N
2603	150N	220N	220N
2615	150N	220N	220N
2617	150N	220N	220N
3602	150K	100K	100K
3607	150K	100K	100K
3618	4K7	1K	4K7
3619	4K7	1K	4K7
3621	3K9	120R	1K3
3631	——	0R	0R
*	0R	——	——

SUBWOOFER AMPLIFIER II

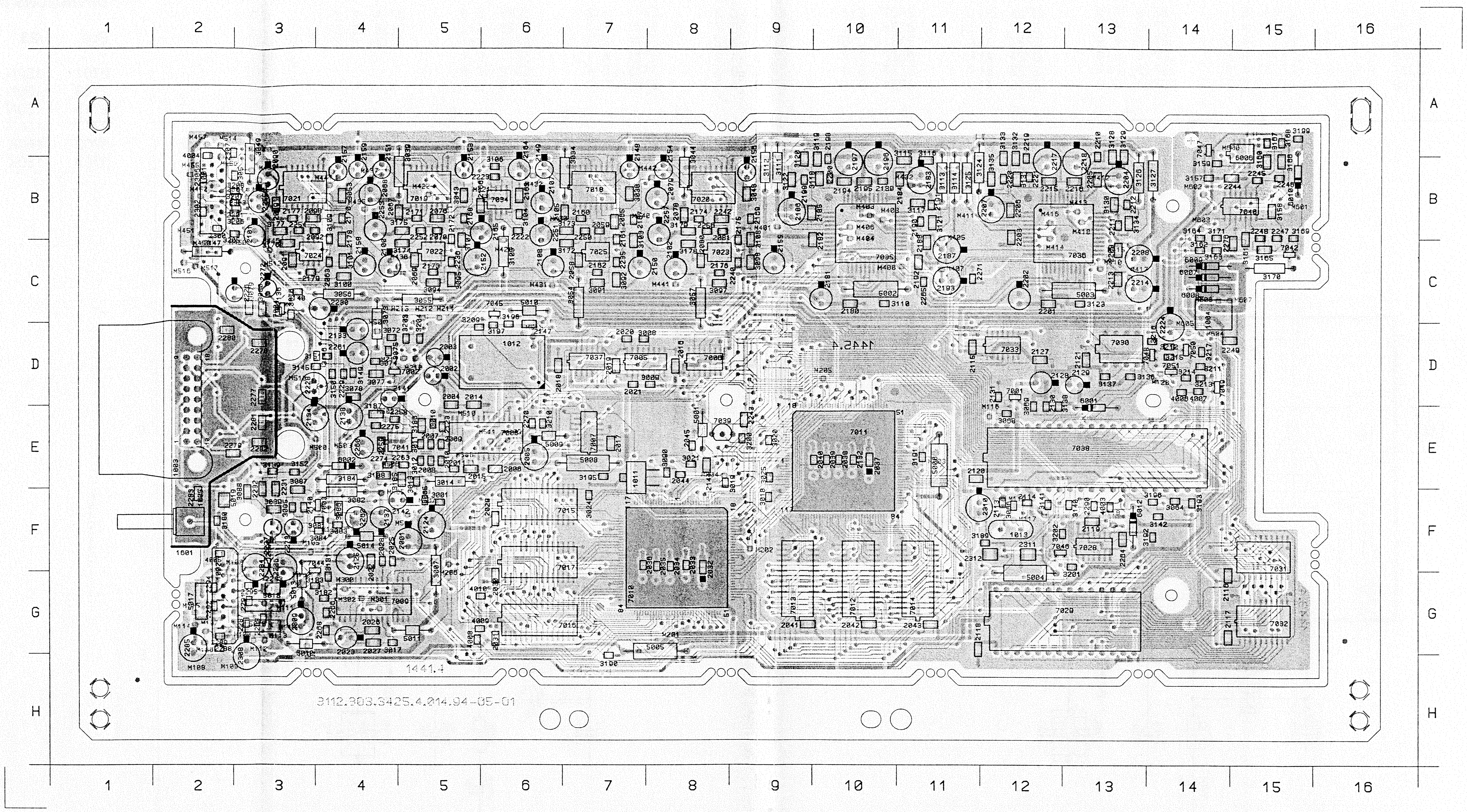
1003	A10	2703	F 2	2709	B 1	2715	F10	2721	F11	2727	C11	2735	D 6	2741	B10	3707	E 9	3714	C12
1003	A 4	2704	F 4	2710	A 5	2716	E 9	2722	B 7	2730	D 1	2736	D 7	3701	F 3	3709	A11	7133	C 3
1003	A 9	2705	F 4	2711	A 5	2717	F 9	2723	A11	2731	D 5	2737	D12	3702	E 3	3710	B11	7134	C10
1003	A 3	2706	C 1	2712	B 5	2718	F10	2724	A11	2732	D 7	2738	A 2	3704	A 4	3711	C 1		
2701	F 3	2707	F 5	2713	A 5	2719	F11	2725	B11	2733	D12	2739	B 3	3705	B 4	3712	C 6		
2702	E 3	2708	B 1	2714	C 5	2720	C 8	2726	A11	2734	D 1	2740	A 9	3706	F10	3713	C 7		


1003 14
SW3+
1003 7
SW3-
1003 13
SW4+
1003 6
SW4-
14V4
+VSUP3
3704
1E
3705
3709
3710
2710
2711
2712
2713
2723
2724
2725
2726
100n
2738
2739
2740
2741
1n
2708
2200u
2709
2722
PROTECTION
LOAD SENSOR
POWERSTAGE
LIFT1
LIFT2
TDA1560Q
7133
7134
TEMP.SENSOR
CLASS-SWITCH
10k
INPUT CIRCUIT
VREF
PWR-GND1
PWR-GND2
MP-SENS-ON/OFF
MODE-SWITCH
DEC
OUT1
OUT2
VP
TP
C1+
C1-
C2+
C2-
n.c.
3711
3712
3713
3714
2706
2714
2720
2727
4700u
2734
2730
2731
2735
2736
2732
2733
2737
3702
150k
3707
2702
2716
22p
2703
2717
150n
3701
3706
1k
2704
2718
10u
+VST
2705
2707
2719
2721
2701
2715
SUBW
1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F

DEVIATIONS IN ASSEMBLING

Pos.	/23	/23B	/23E
2701	150N	220N	220N
2703	150N	220N	220N
2715	150N	220N	220N
2717	150N	220N	220N
3702	150K	100K	100K
3707	150K	100K	100K

DIGITAL PWB



1001 B 2	2020 D 7	2059 B 7	2116 G 15	2149 B 6	2175 B 9	2201 C 12	2228 D 4	2260 E 4	2288 G 2	3009 D 8	3065 F 5	3095 C 5	3124 B 12	3152 E 3	3209 D 6	3182 G 4	5011 G 5	7011 E 10	7039 E 8	M114 G 2	M404 B 10	M445 B 3	M514 A 2
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2015 E 5	2042 G 10	2107 B 6	2141 D 4	2170 B 4	2196 B 10	2222 B 6	2255 B 3	2283 F 2	2311 F 12	3054 C 7	3089 F 3	3119 B 10	3147 C 2	3177 B 3	5005 G 8	3204 D 5	7006 D 8	7034 B 6	M109 H 2	M302 G 4	M436 C 5	M509 E 6	
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2018 D 6	2045 E 8	2114 F 12	2147 D 6	2173 C 5	2199 B 9	2226 C 3	2258 E 5	2286 F 3	3007 F 5	3057 C 8	3092 C 7	3122 B 9	3150 D 4	3180 F 2	5009 E 6	3207 B 3	7009 G 4	7037 D 7	M112 G 3	M402 B 11	M441 C 8	M512 D 3	
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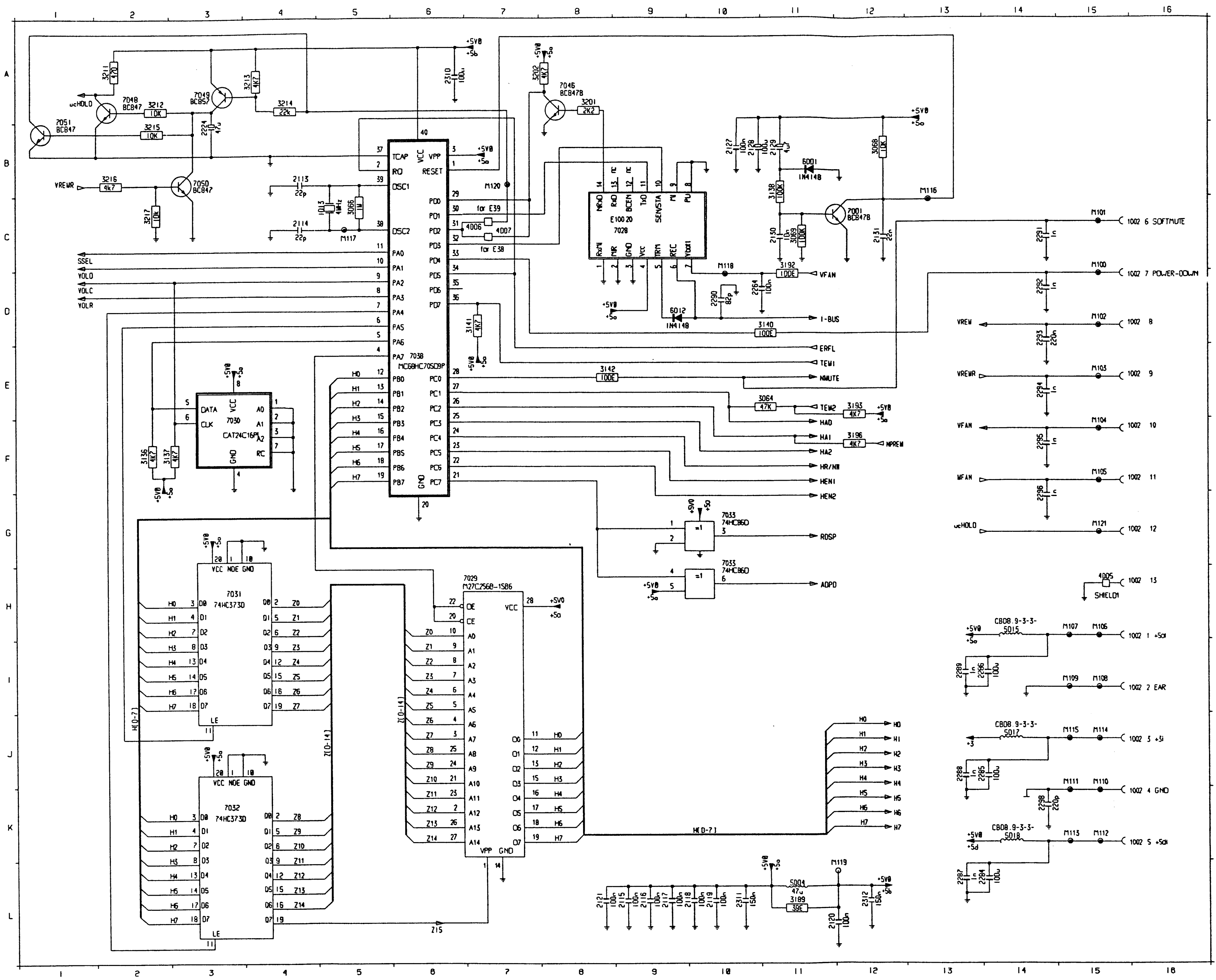
MC 1



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ERFL
TEWI
NMUTE
TEW2
HAO
HA1
HA2
HR/NW
HEN1
HEN2
ROSP
ADPO
VFAN
NPREW
1002 6 SOFTMUTE
1002 7 POWER-DOWN
1002 8
1002 9
1002 10
1002 11
1002 12
1002 13
1002 1 +5a
1002 2 EAR
1002 3 +5I
1002 4 GND
1002 5 +5d
SHIELD1
+5V8
H(0-7)
Z(0-14)

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1002	I15
1002	J15
1002	K15
1002	K15
1002	C15
1002	D15
1002	D15
1002	E15
1002	F15
1002	F15
1002	G15
1002	H15
1013	C 5
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2114	C 4
2115	L 9
2116	L 9
2117	L 9
2118	L10
2119	L10
2120	L11
2121	L 8
2127	B10
2128	B10
2129	B11
2130	C11
2131	C12
2224	B 3
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2285	J14
2286	I14
2287	L13
2288	J13
2289	I13
2290	D10
2291	C14
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2293	D14
2294	E14
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2296	G14
2298	K14
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2312	L12
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3066	C 5
3068	B12
3069	C11
3136	F 2
3137	F 2
3138	B11
3140	D11
3141	D 7
3142	E 8
3189	L11
3192	C11
3193	E12
3196	F12
3201	A 8
3202	A 7
3211	A 2
3212	A 2
3213	A 4
3214	A 4
3215	B 2
3216	B 2
3217	C 2
4005	H15
4006	C 7
4007	C 7
5004	L11
5015	H14
5017	J14
5018	K14
6001	B11
6012	D 9
7001	C12
7028	C 9
7029	H 6
7030	F 3
7031	H 3
7032	K 3
7033	G10
7033	G10
7038	E 6
7046	A 8
7048	A 2
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7050	B 3
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M104	F15
M105	F15
M106	H15
M107	H15
M108	I15
M109	I15
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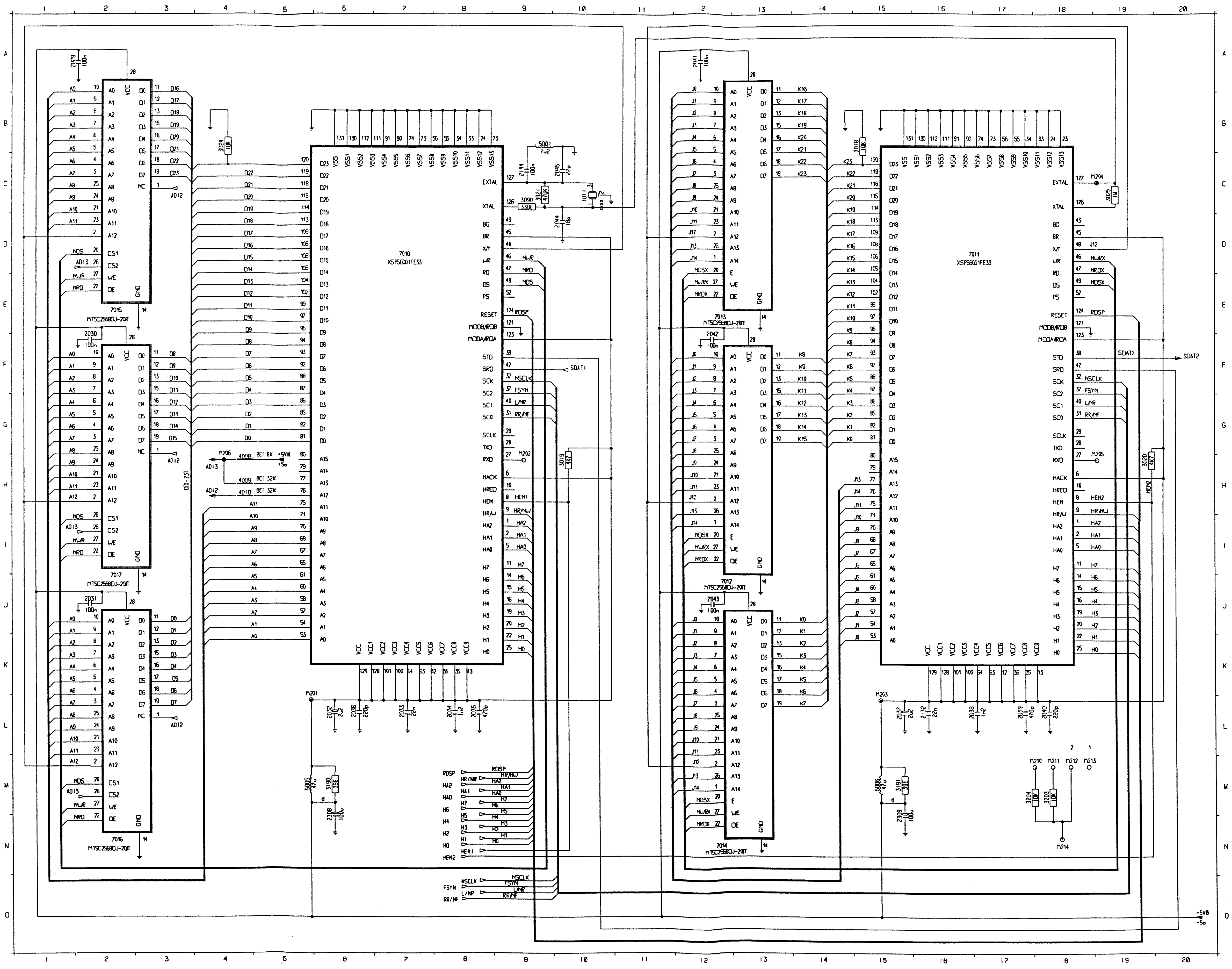
M111	J15
M112	K15
M113	K15
M114	J15
M115	J15
M116	B13
M117	C 5
M118	C10
M119	L11
M120	B 7
M121	G15

DEVIATIONS IN ASSEMBLING

Pos.	/23	/23B	/23E
2129	1U	1U	10U
2224	——	——	47U
3069	100K	100K	68K
3138	100K	100K	68K
3211	——	——	470R
3212	——	——	10K
3213	——	——	4K7
3214	——	——	22K
3215	——	——	10K
3216	——	——	4K7
3217	——	——	10K
4006	——	——	0R
4007	0R	——	——
7029	RC1	A3 (E39)	A3 (E39)
7038	RC1	A3 (E39)	A3 (E39)
7048	——	——	BC847
7049	——	——	BC857
7050	——	——	BC847
7051	——	——	BC847

MC 2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7012
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7014
MT5C2568DJ-20IT
1011
5001
3090
330E
SDAT1
SDAT2
M201
M203
M210
M211
M212
M213
M214
+5VB
+5a

1011	C10
2029	A 2
2030	F 2
2031	J 2
2032	L 6
2033	L 7
2034	L 8
2035	L 8
2036	L 6
2037	L15
2038	L17
2039	L17
2040	L18
2041	A12
2042	F12
2043	J12
2044	D10
2045	C10
2132	L16
2144	C 9
2308	M 6
2309	M15
3018	B15
3019	H10
3020	H19
3021	C 9
3024	B 4
3025	C19
3090	C 9
3190	M 6
3191	M15
3203	M18
3204	M17
4008	H 4
4009	H 4
4010	H 4
5001	B 9
5005	M 5
5006	M15
7010	D 7
7011	D16
7012	J12
7013	E12
7014	N12
7015	E 2
7016	N 2
7017	J 2
M201	L 5
M202	H 9
M203	L15
M204	C18
M205	H18
M206	H 4
M210	M17
M211	M18
M212	M18
M213	M18
M214	N18

D/A CONVERTER + VOLUME

1001	E23
2058	B15
2059	E14
2063	M21
2065	C12
2067	B19
2068	B19
2069	B21
2070	B20
2076	C18
2078	I13
2079	I13
2080	I15
2081	J14
2089	K19
2090	K19
2091	K21
2092	K20
2098	L18
2100	B21
2101	K21
2102	I14
2105	B13
2107	B13
2108	B14
2148	C11
2149	C14
2150	E14
2151	C20
2152	E20
2153	A18
2154	K14
2155	L14
2156	J11
2157	L20
2158	N20
2159	K18
2160	C14
2161	D15
2162	E15
2163	G 1
2164	G 1
2165	F 3
2166	F 3
2167	C11
2168	C18
2169	K11
2170	L18
2171	B20
2172	D21
2173	E22
2174	J14
2175	K15
2176	L15
2177	L20
2178	M21
2179	N22
2180	B 1
2181	B 1
2182	D 9
2183	E 8
2184	E 7
2185	F 7
2186	F 6
2187	D10
2188	D10
2189	A 5
2190	A 9
2191	A 7
2192	B 8
2193	B 9
2194	G 7
2195	G 7
2196	G 8
2197	G 8
2198	G10
2199	C10
2200	F 6
2201	J 1
2202	J 1
2203	L 9
2204	M 8
2205	M 7
2206	N 7
2207	N 6
2208	K10
2209	K10
2210	H 5
2211	H 9
2212	H 7
2213	J 9
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3097	L15
3098	L14
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3101	M21
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3104	G 1
3105	E 3
3106	F 1
3107	E20
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3112	D 9
3113	E 8
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3116	A 7
3117	A 8
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3135	L10
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3175	C20
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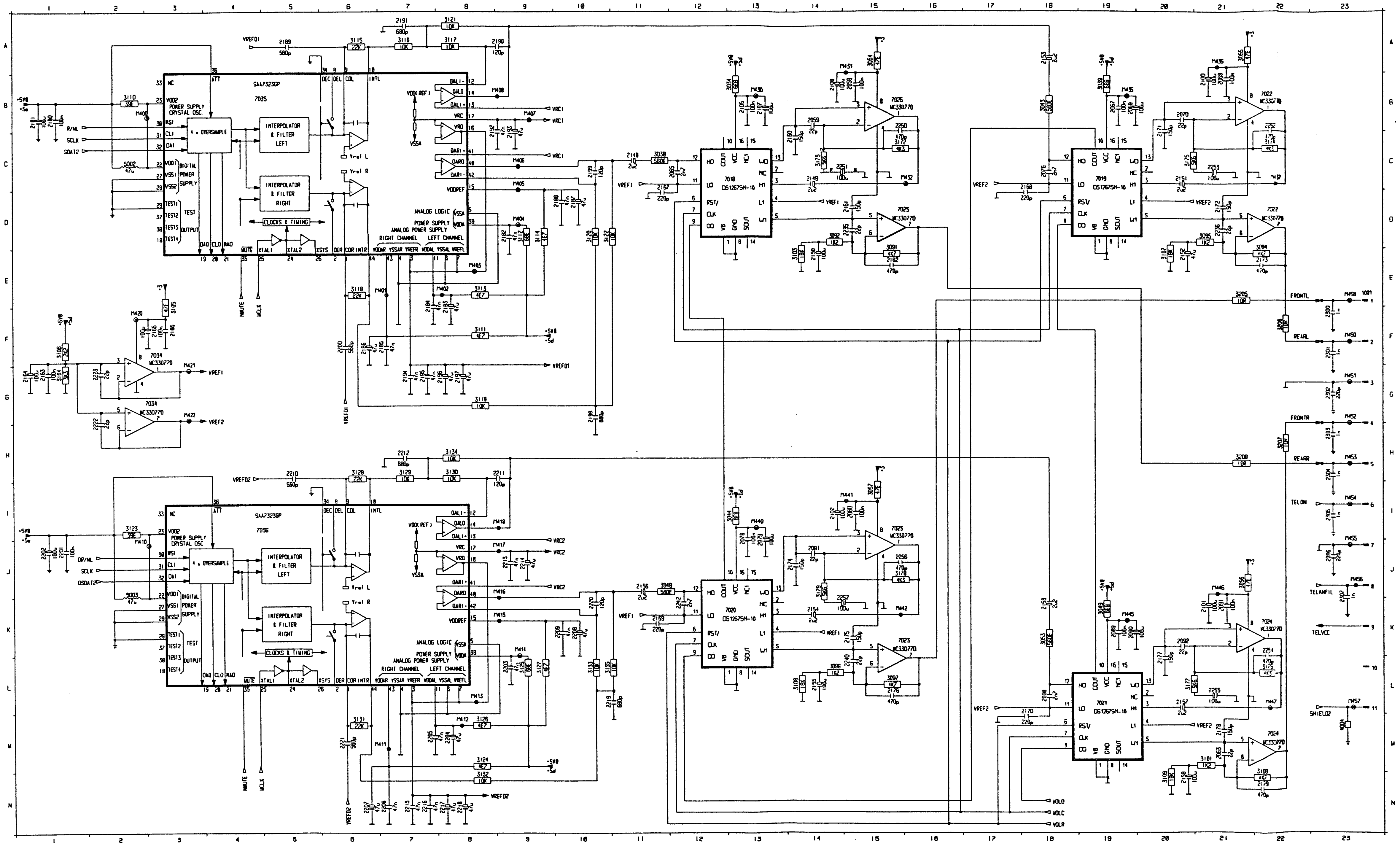
M456	J23
M457	L23
M458	E23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LEFT CHANNEL
DIGITAL POWER SUPPLY
TEST OUTPUT
POWER SUPPLY CRYSTAL OSC
MUTE
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SCLK
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OR/WL
OSDAT2
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14
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22
23

DEVIATIONS IN ASSEMBLING

Pos.	/23	/23B	/23E
2162	470P	270P	270P
2173	470P	270P	270P
2176	470P	270P	270P
2179	470P	270P	270P
3091	4K7	10K	10K
3092	1K2	1K3	1K3
3094	4K7	10K	10K
3095	1K2	1K3	1K3
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3098	1K2	1K3	1K3
3100	4K7	10K	10K
3101	1K2	1K3	1K3
3103	18K	39K	39K
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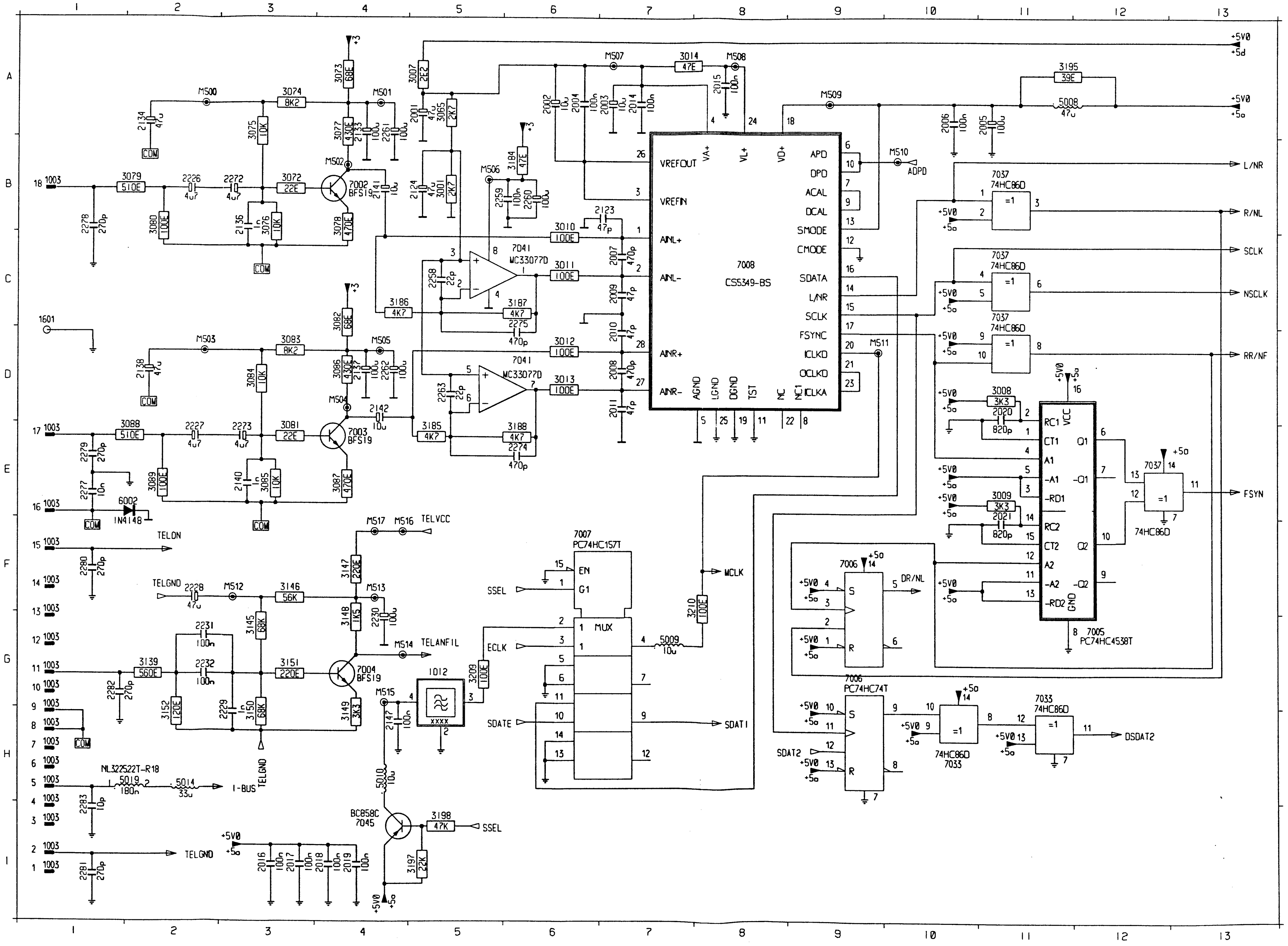
1003	I 1	1003	E 1	2010	D 7	2136	B 3	2258	C 5	2281	I 1	3073	A 4	3087	E 4	3186	C 4	7002	B 4	7041	C 6	M511	D 9
1003	I 1	1003	E 1	2011	D 7	2137	D 4	2259	B 5	2282	G 1	3074	A 3	3088	E 2	3187	C 6	7003	E 4	7041	D 6	M512	F 3
1003	I 1	1003	B 1	2014	A 7	2138	D 2	2260	B 6	2283	I 1	3075	A 3	3089	E 2	3188	E 6	7004	G 4	7045	I 4	M513	F 4
1003	H 1	1012	G 5	2015	A 8	2140	E 3	2261	A 4	3001	B 5	3076	B 3	3139	G 2	3195	A11	7005	G12	M500	A 2	M514	G 4
1003	H 1	1601	C 1	2016	I 3	2141	B 4	2262	D 4	3007	A 5	3077	A 4	3145	G 3	3197	I 5	7006	F 9	M501	A 4	M515	G 4
1003	H 1	2001	A 5	2017	I 3	2142	D 4	2263	D 5	3008	D11	3078	B 4	3146	F 3	3198	I 5	7006	G 9	M502	B 4	M516	F 4
1003	H 1	2002	A 6	2018	I 4	2147	H 4	2272	B 3	3009	E11	3079	B 2	3147	F 4	3209	G 5	7007	F 6	M503	D 2	M517	F 4
1003	H 1	2003	A 7	2019	I 4	2226	B 2	2273	E 3	3010	B 6	3080	B 2	3148	G 4	3210	F 8	7008	C 8	M504	D 4		
1003	G 1	2004	A 6	2020	D11	2227	E 2	2274	E 6	3011	C 6	3081	E 3	3149	H 4	5008	A11	7033	H10	M505	D 4		
1003	G 1	2005	A11	2021	E11	2228	F 2	2275	C 6	3012	D 6	3082	C 4	3150	H 3	5009	G 7	7033	G11	M506	B 5		
1003	G 1	2006	A10	2123	B 7	2229	H 3	2277	E 1	3013	D 6	3083	D 3	3151	G 3	5010	H 4	7037	B11	M507	A 7		
1003	G 1	2007	C 7	2124	B 5	2230	G 4	2278	B 1	3014	A 7	3084	D 3	3152	H 2	5014	H 2	7037	C11	M508	A 8		
1003	F 1	2008	D 7	2133	A 4	2231	G 2	2279	E 1	3065	A 5	3085	E 3	3184	B 6	5019	H 2	7037	C11	M509	A 9		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9
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11
12
13
A
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G
H
I
7008
CS5349-BS
VREFOUT
VREFIN
AINL+
AINL-
AINR+
AINR-
VA+
VL+
VD+
APD
DPD
ACAL
DCAL
SMODE
CMODE
SDATA
L/NR
SCLK
FSYNC
ICLKD
OCLKD
ICLKA
AGND
LGND
DGND
TST
NC
NC1
7041
MC33077D
7002
BFS19
7003
BFS19
7004
BFS19
7045
BC858C
6002
1N4148
7007
PC74HC157T
MUX
EN
G1
SSEL
ECLK
SDATE
SDAT1
MCLK
1012
7037
74HC86D
7005
PC74HC4538T
RC1
CT1
RC2
CT2
VCC
GND
Q1
Q2
7006
PC74HC74T
7033
74HC86D
+5V0
+5d
+5a
L/NR
R/NL
SCLK
NSCLK
RR/NF
FSYN
DR/NL
DSDAT2
SDAT2
ADPD
TELON
TELGND
TELVCC
TELANFIL
I-BUS
NL322522T-R18
COM
1003
1601
M500
M501
M502
M503
M504
M505
M506
M507
M508
M509
M510
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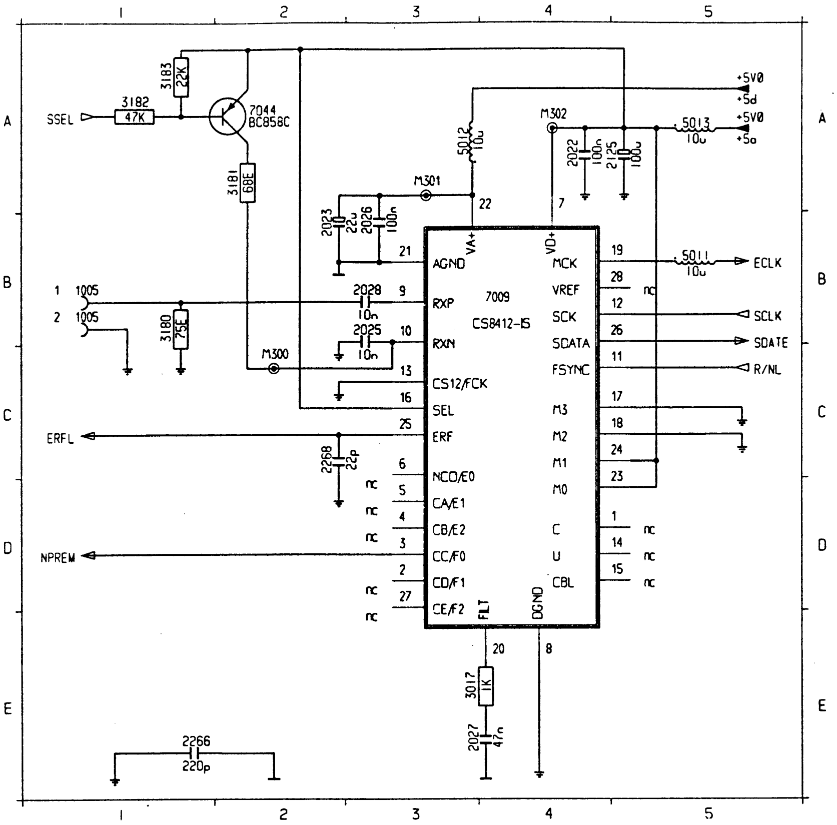
M512
M513
M514
M515
M516
M517

DIGITAL INPUT


SSEL
3182
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3183
22K
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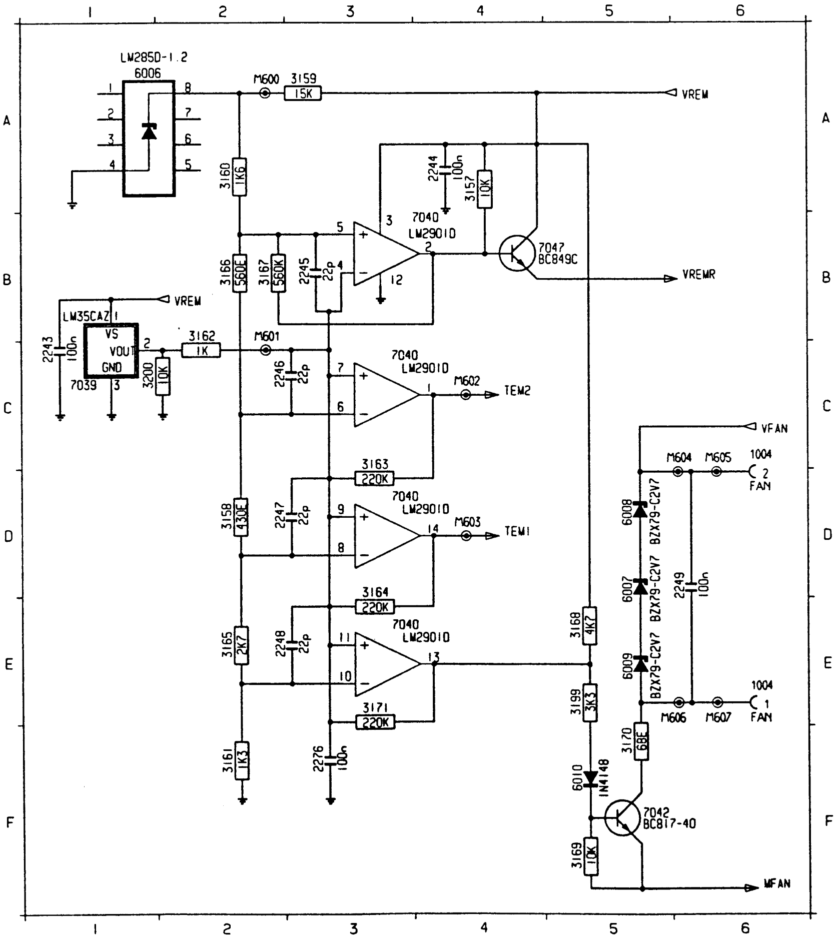
BC858C
3181
68E
+5V0
+5d
+5V0
+5a
5012
10u
5013
10u
M302
2022
10u
2125
100u
M301
2023
22u
2026
100n
22
7
VA+
VD+
21
AGND
MCK
19
5011
10u
ECLK
1 1005
2 1005
2028
10n
9
RXP
7009
CS8412-IS
VREF
28
nc
12
SCK
SCLK
3180
75E
2025
10n
10
RXN
26
SDATA
SDATE
M300
13
CS12/FCK
FSYNC
11
R/NL
16
SEL
M3
17
ERFL
25
ERF
M2
18
2268
22p
6
NCO/E0
M1
24
nc
5
CA/E1
M0
23
4
CB/E2
C
1
3
CC/F0
U
14
NPREM
2
CD/F1
CBL
15
27
CE/F2
FLT
DGND
20
8
3017
1K
2027
47n
2266
220p
1
2
3
4
5
A
B
C
D
E

1005	B	1
1005	B	1
2022	A	4
2023	B	2
2025	B	3
2026	B	3
2027	E	3
2028	B	3
2125	A	5
2266	E	1
2268	C	2
3017	E	3
3180	B	1
3181	A	2
3182	A	1
3183	A	1
5011	B	5
5012	A	3
5013	A	5
7009	B	4
7044	A	2
M300	C	2
M301	A	3
M302	A	4

FAN SUPPLY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VREM
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2244
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3157
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LM2901D
7047
BC849C
3166
560E
3167
560K
2245
22p
VREMR
VREM
LM35CAZ
VS
VOUT
GND
2243
100n
7039
3200
10K
3162
1K
M601
2246
22p
7040
LM2901D
M602
TEM2
VFAN
M604
M605
1004
2
FAN
3163
220K
3158
430E
2247
22p
7040
LM2901D
M603
TEM1
6008
BZX79-C2V7
6007
BZX79-C2V7
2249
100n
3164
220K
7040
LM2901D
3165
2K7
2248
22p
3168
4K7
6009
BZX79-C2V7
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220K
3199
3K3
M606
M607
1004
1
FAN
3161
1K3
2276
100n
6010
1N4148
3170
68E
7042
BC817-40
3169
10K
MFAN
1
2
3
4
5
6
A
B
C
D
E
F

1004	E	6
1004	C	6
2243	C	1
2244	A	4
2245	B	3
2246	C	2
2247	D	2
2248	E	2
2249	D	6
2276	F	3
3157	A	4
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3161	F	2
3162	B	2
3163	C	3
3164	D	3
3165	E	2
3166	B	2
3167	B	2
3168	E	5
3169	F	5
3170	F	5
3171	E	3
3199	E	5
3200	C	1
6006	A	1
6007	D	5
6008	D	5
6009	E	5
6010	F	5
7039	C	1
7040	C	3
7040	B	3
7040	E	3
7040	D	3
7042	F	5
7047	B	4
M600	A	2
M601	B	2
M602	C	4
M603	D	4
M604	C	5
M605	C	6
M606	E	5
M607	E	6

ELECTRICAL PARTSLIST

For all capacitors, resistors and coils not mentioned here, refer to standard components catalogue.

DIGITAL PWB

Miscellaneous

1005	4822 265 20746	CONN. COAXIAL	
1011	4822 242 82249	CRYSTAL	33 MHz
1012	4822 242 82251	CRYSTAL	11,2896 MHz
1013	4822 242 71874	CRYSTAL	4 MHz

Capacitors

2001	4822 124 80724	ELCO ALU.	47µF/10V 20%
2002	4822 124 80813	ELCO ALU.	10µF/16V 20%
2003	4822 124 80813	ELCO ALU.	10µF/16V 20%
2007	5322 122 32268	CERAMIC SMD	470pF 10%
2008	5322 122 32268	CERAMIC SMD	470pF 10%
2009	5322 122 32452	CERAMIC	47pF 5%NP0
2010	5322 122 32452	CERAMIC	47pF 5%NP0
2011	5322 122 32452	CERAMIC	47pF 5%NP0
2023	4822 124 81306	ELCO ALU.	22µF/16V 20%
2032	4822 124 11473	TANTALUM	2,2µF/6,3V 20%
2035	5322 122 32268	CERAMIC SMD	470pF 10%
2036	4822 122 33575	CERAMIC SMD	220pF 5%NPO
2037	4822 124 11473	TANTALUM	2,2µF/6,3V 20%
2039	5322 122 32268	CERAMIC SMD	470pF 10%
2040	4822 122 33575	CERAMIC SMD	220pF 5%NPO
2044	4822 126 13689	CERAMIC SMD	18pF 1% NP0
2045	5322 122 32658	CERAMIC SMD	22pF 5%
2059	5322 122 32658	CERAMIC SMD	22pF 5%
2063	5322 122 32658	CERAMIC SMD	22pF 5%
2065	4822 126 13783	CERAMIC SMD	2,7nF 2%
2068	4822 124 81195	ELCO ALU.	100µF/16V 20%
2070	5322 122 32658	CERAMIC SMD	22pF 5%
2076	4822 126 13783	CERAMIC SMD	2,7nF 2%
2079	4822 124 81195	ELCO ALU.	100µF/16V 20%
2081	5322 122 32658	CERAMIC SMD	22pF 5%
2090	4822 124 81195	ELCO ALU.	100µF/16V 20%
2092	5322 122 32658	CERAMIC SMD	22pF 5%
2098	4822 126 13783	CERAMIC SMD	2,7nF 2%
2100	4822 124 81195	ELCO ALU.	100µF/16V 20%
2101	4822 124 81195	ELCO ALU.	100µF/16V 20%
2102	4822 124 81195	ELCO ALU.	100µF/16V 20%
2105	4822 122 33496	CERAMIC SMD	100nF 10% X7R
2107	4822 124 81195	ELCO ALU.	100µF/16V 20%
2108	4822 124 81195	ELCO ALU.	100µF/16V 20%
2113	5322 122 32658	CERAMIC SMD	22pF 5%
2114	5322 122 32658	CERAMIC SMD	22pF 5%
2123	5322 122 32452	CERAMIC	47pF 5%NP0
2124	4822 124 80724	ELCO ALU.	47µF/10V 20%
2128	4822 124 81195	ELCO ALU.	100µF/16V 20%
2129	4822 124 80725	ELCO ALU.	1µF/50V 20%
2129	4822 124 80813	ELCO ALU.	10µF/16V 20%
2133	4822 124 81195	ELCO ALU.	100µF/16V 20%
2134	4822 124 80724	ELCO ALU.	47µF/10V 20%
2137	4822 124 81195	ELCO ALU.	100µF/16V 20%
2138	4822 124 80724	ELCO ALU.	47µF/10V 20%
2141	4822 124 80813	ELCO ALU.	10µF/16V 20%
2142	4822 124 80813	ELCO ALU.	10µF/16V 20%
2148	4822 124 80726	ELCO ALU.	2.2µF/50V 20%
2149	4822 124 80726	ELCO ALU.	2.2µF/50V 20%
2150	4822 124 81195	ELCO ALU.	100µF/16V 20%
2151	4822 124 80726	ELCO ALU.	2.2µF/50V 20%
2152	4822 124 80724	ELCO ALU.	47µF/10V 20%
2153	4822 124 80726	ELCO ALU.	2.2µF/50V 20%
2154	4822 124 80726	ELCO ALU.	2.2µF/50V 20%
2155	4822 124 81195	ELCO ALU.	100µF/16V 20%
2156	4822 124 80726	ELCO ALU.	2.2µF/50V 20%
2157	4822 124 80726	ELCO ALU.	2.2µF/50V 20%
2158	4822 124 81195	ELCO ALU.	100µF/16V 20%
2159	4822 124 80726	ELCO ALU.	2.2µF/50V 20%
2160	5322 122 33538	CERAMIC SMD	150pF 2%NP0
2161	5322 122 33538	CERAMIC SMD	150pF 2%NP0
2162	5322 122 32268	CERAMIC SMD	470pF 10%
2164	4822 124 81195	ELCO ALU.	100µF/16V 20%
2165	4822 124 81195	ELCO ALU.	100µF/16V 20%
2167	4822 122 33575	CERAMIC SMD	220pF 5%NPO
2168	4822 122 33575	CERAMIC SMD	220pF 5%NPO
2169	4822 122 33575	CERAMIC SMD	220pF 5%NPO
2170	4822 122 33575	CERAMIC SMD	220pF 5%NPO
2171	5322 122 33538	CERAMIC SMD	150pF 2%NP0
2172	5322 122 33538	CERAMIC SMD	150pF 2%NP0
2173	5322 122 32268	CERAMIC SMD	470pF 10%
2174	5322 122 33538	CERAMIC SMD	150pF 2%NP0
2175	5322 122 33538	CERAMIC SMD	150pF 2%NP0
2176	5322 122 32268	CERAMIC SMD	470pF 10%
2177	5322 122 33538	CERAMIC SMD	150pF 2%NP0
2178	5322 122 33538	CERAMIC SMD	150pF 2%NP0
2179	5322 122 32268	CERAMIC SMD	470pF 10%
2181	4822 124 81195	ELCO ALU.	100µF/16V 20%
2183	4822 124 80724	ELCO ALU.	47µF/10V 20%
2186	4822 124 80724	ELCO ALU.	47µF/10V 20%
2187	4822 124 80724	ELCO ALU.	47µF/10V 20%
2189	4822 126 13782	CERAMIC SMD	560pF 2%
2190	4822 126 13781	CERAMIC SMD	120pF 2%
2191	4822 126 13737	CERAMIC	680pF 2%NPO
2193	4822 124 80724	ELCO ALU.	47µF/10V 20%
2196	4822 124 80724	ELCO ALU.	47µF/10V 20%
2197	4822 124 80724	ELCO ALU.	47µF/10V 20%
2198	4822 126 13737	CERAMIC	680pF 2%NPO
2199	4822 126 13781	CERAMIC SMD	120pF 2%
2200	4822 126 13782	CERAMIC SMD	560pF 2%
2201	4822 122 33496	CERAMIC SMD	100n F10% X7R
2202	4822 124 81195	ELCO ALU.	100µF/16V 20%
2204	4822 124 80724	ELCO ALU.	47µF/10V 20%
2207	4822 124 80724	ELCO ALU.	47µF/10V 20%
2208	4822 124 80724	ELCO ALU.	47µF/10V 20%
2210	4822 126 13782	CERAMIC SMD	560pF 2%
2211	4822 126 13781	CERAMIC SMD	120pF 2%
2212	4822 126 13737	CERAMIC	680pF 2%NPO
2214	4822 124 80724	ELCO ALU.	47µF/10V 20%
2217	4822 124 80724	ELCO ALU.	47µF/10V 20%
2218	4822 124 80724	ELCO ALU.	47µF/10V 20%
2219	4822 126 13737	CERAMIC	680pF 2%NPO
2220	4822 126 13781	CERAMIC SMD	120pF 2%
2221	4822 126 13782	CERAMIC SMD	560pF 2%
2222	5322 122 32658	CERAMIC SMD	22pF 5%
2223	5322 122 32658	CERAMIC SMD	22pF 5%
2224	4822 124 80724	ELCO ALU.	47µF/10V 20%
2226	4822 124 80727	ELCO ALU.	4.7µF/25V 20%
2227	4822 124 80727	ELCO ALU.	4.7µF/25V 20%
2228	4822 124 80724	ELCO ALU.	47µF/10V 20%
2230	4822 124 81195	ELCO ALU.	100µF/16V 20%
2235	5322 122 32658	CERAMIC SMD	22pF 5%
2236	5322 122 32658	CERAMIC SMD	22pF 5%
2240	5322 122 32658	CERAMIC SMD	22pF 5%
2242	4822 126 13783	CERAMIC SMD	2,7nF 2%
2245	5322 122 32658	CERAMIC SMD	22pF 5%
2246	5322 122 32658	CERAMIC SMD	22pF 5%
2247	5322 122 32658	CERAMIC SMD	22pF 5%
2248	5322 122 32658	CERAMIC SMD	22pF 5%
2250	5322 122 32268	CERAMIC SMD	470pF 10%
2251	4822 124 81195	ELCO ALU.	100µF/16V 20%
2252	5322 122 32268	CERAMIC SMD	470pF 10%
2253	4822 124 81195	ELCO ALU.	100µF/16V 20%
2254	5322 122 32268	CERAMIC SMD	470pF 10%
2255	4822 124 81195	ELCO ALU.	100µF/16V 20%
2256	5322 122 32268	CERAMIC SMD	470pF 10%
2257	4822 124 81195	ELCO ALU.	100µF/16V 20%
2258	5322 122 32658	CERAMIC SMD	22pF 5%
2260	4822 124 81195	ELCO ALU.	100µF/16V 20%
2261	4822 124 81195	ELCO ALU.	100µF/16V 20%
2262	4822 124 81195	ELCO ALU.	100µF/16V 20%
2263	5322 122 32658	CERAMIC SMD	22pF 5%
2266	4822 122 33575	CERAMIC SMD	220pF 5%NPO
2268	5322 122 32658	CERAMIC SMD	22pF 5%
2272	4822 124 80727	ELCO ALU.	4.7µF/25V 20%
2273	4822 124 80727	ELCO ALU.	4.7µF/25V 20%
2274	5322 122 32268	CERAMIC SMD	470pF 10%
2275	5322 122 32268	CERAMIC SMD	470pF 10%
2278	4822 122 32142	CERAMIC SMD	270pF 2%NP0
2279	4822 122 32142	CERAMIC SMD	270pF 2%NP0
2280	4822 122 32142	CERAMIC SMD	270pF 2%NP0
2281	4822 122 32142	CERAMIC SMD	270pF 2%NP0
2282	4822 122 32142	CERAMIC SMD	270pF 2%NP0
2283	4822 122 31971	CERAMIC SMD	10pF 2%NP0
2290	4822 122 33515	CERAMIC SMD	82pF 5%NP0
2293	4822 122 32916	CERAMIC SMD	220nF 10% X7R
2298	4822 122 33575	CERAMIC SMD	220pF 5%NPO
2302	4822 122 33575	CERAMIC SMD	220pF 5%NPO
2306	4822 122 33575	CERAMIC SMD	220pF 5%NPO
2311	4822 122 33813	CERAMIC SMD	150nF 10% X7R
2312	4822 122 33813	CERAMIC SMD	150nF 10% X7R

Resistors

3034	4822 052 10688		6R8 5% 0,33W
3039	4822 052 10688		6R8 5% 0,33W
3044	4822 052 10688		6R8 5% 0,33W
3049	4822 052 10688		6R8 5% 0,33W

Coils

5001	4822 156 21721		2,2µH
5009	4822 152 20677		10µH
5010	4822 152 20677		10µH
5011	4822 152 20677		10µH
5012	4822 152 20677		10µH
5013	4822 152 20677		10µH
5014	4822 152 20678		33µH
5015	4822 526 10596	EMI 8.9/3/3µ4S2	
5017	4822 526 10596	EMI 8.9/3/3µ4S2	
5018	4822 526 10596	EMI 8.9/3/3µ4S2	
5019	4822 157 71777		0,18µH 10%

Diodes

6001	4822 130 30621		1N4148
6002	4822 130 30621		1N4148
6006	4822 130 70064	IC	LM285D-1.2
6007	5322 130 34563	Z-DIODE	BZX79-C2V7
6008	5322 130 34563	Z-DIODE	BZX79-C2V7
6009	5322 130 34563	Z-DIODE	BZX79-C2V7
6010	4822 130 30621		1N4148
6012	4822 130 30621		1N4148

Transistors and IC's

7001	4822 130 60511		BC847B
7002	4822 130 42353		BFS19
7003	4822 130 42353		BFS19
7004	4822 130 42353		BFS19
7005	5322 209 31799	DIG MOS	74HC4538D
7006	5322 209 71589	DIG MOS	74HC74D
7007	4822 209 60448	DIG MOS	74HC157D
7008	4822 209 91156	DIG MOS	CS5349-BS
7009	4822 209 91155	DIG MOS	CS8412-IS
7010	4822 209 91157	DIG MOS U-COMP	DSP56001AFE33
7011	4822 209 91157	DIG MOS U-COMP	DSP56001AFE33
7012	4822 209 91151	DIG MOS	TC55328AJ-15
7013	4822 209 91151	DIG MOS	TC55328AJ-15
7014	4822 209 91151	DIG MOS	TC55328AJ-15
7015	4822 209 91151	DIG MOS	TC55328AJ-15
7016	4822 209 91151	DIG MOS	TC55328AJ-15
7017	4822 209 91151	DIG MOS	TC55328AJ-15
7018	4822 209 91154	DIG MOS	DS1267SN-10K
7019	4822 209 91154	DIG MOS	DS1267SN-10K
7020	4822 209 91154	DIG MOS	DS1267SN-10K
7021	4822 209 91154	DIG MOS	DS1267SN-10K
7022	4822 209 91152	ANA AMPLIFIER	MC33077D
7023	4822 209 91152	ANA AMPLIFIER	MC33077D
7024	4822 209 91152	ANA AMPLIFIER	MC33077D
7025	4822 209 91152	ANA AMPLIFIER	MC33077D
7028	4822 209 33841		E100.20
7029	4822 209 91149	DIG MOS EPROM	M27C256B-15B6+R
7029	4822 209 12937	DIG MOS EPROM	M27C256B-15B6+A
7030	5322 209 12323	DIG MOS EEPROM	CAT24C16PI
7031	5322 209 71555	DIG MOS	74HC373D
7032	5322 209 71555	DIG MOS	74HC373D
7033	5322 209 71562	DIG MOS	74HC86D
7034	4822 209 91152	ANA AMPLIFIER	MC33077D
7035	4822 209 63997	DIG MOS	SAA7323GP
7036	4822 209 63997	DIG MOS	SAA7323GP
7037	5322 209 71562	DIG MOS	74HC86D
7038	4822 209 91148	DIG MOS U-COMP	MC68HC705D9P+RC
7038	4822 209 12938	DIG MOS U-COMP	MC68HC705D9P+A3
7039	4822 209 91153		LM35CAZ
7040	4822 209 91034		LM2901D
7041	4822 209 91152	ANA AMPLIFIER	MC33077D
7042	4822 130 42615		BC817-40
7044	4822 130 42513		BC858C
7045	4822 130 42513		BC858C
7046	4822 130 60511		BC847B
7047	4822 130 42614		BC849C
7048	4822 130 42705		BC847
7049	4822 130 61233		BC857
7050	4822 130 42705		BC847
7051	4822 130 42705		BC847

ANALOG PWB

Capacitors

2102	4822 124 80766	ELCO ALU.	1000µF/25V 20%
2105	4822 124 80815	ELCO ALU.	470µF/16V 20%
2108	4822 124 80815	ELCO ALU.	470µF/16V 20%
2111	4822 124 81306	ELCO ALU.	22µF/16V 20%
2113	4822 124 80724	ELCO ALU.	47µF/10V 20%
2114	4822 124 80724	ELCO ALU.	47µF/10V 20%
2115	4822 124 81307	ELCO ALU.	4700µF/16V 20%
2120	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2121	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2126	4822 124 81195	ELCO ALU.	100µF/16V 20%
2128	4822 124 81195	ELCO ALU.	100µF/16V 20%
2129	4822 122 32566	CERAMIC SMD	3,9nF 10% X7R
2130	4822 122 32566	CERAMIC SMD	3,9nF 10% X7R
2137	4822 124 81306	ELCO ALU.	22µF/16V 20%
2138	4822 124 41097	ELCO ALU.	220µF/16V 20%
2139	4822 124 41097	ELCO ALU.	220µF/16V 20%
2140	4822 124 81195	ELCO ALU.	100µF/16V 20%
2201	4822 124 80814	ELCO ALU.	33µF/16V 20%
2202	4822 122 33496	CERAMIC SMD	100nF 10% X7R
2203	4822 122 33496	CERAMIC SMD	100nF 10% X7R
2204	5322 122 32658	CERAMIC SMD	22pF 5%
2205	4822 122 33496	CERAMIC SMD	100nF 10% X7R
2208	5322 122 32658	CERAMIC SMD	22pF 5%
2210	5322 122 32658	CERAMIC SMD	22pF 5%
2212	4822 124 80813	ELCO ALU.	10µF/16V 20%
2214	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2216	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2222	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2225	5322 122 32658	CERAMIC SMD	22pF 5%
2229	5322 122 32658	CERAMIC SMD	22pF 5%
2232	4822 124 80727	ELCO ALU.	4.7µF/25V 20%
2234	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2238	5322 122 32658	CERAMIC SMD	22pF 5%
2240	5322 122 32658	CERAMIC SMD	22pF 5%
2245	4822 124 81195	ELCO ALU.	100µF/16V 20%
2246	4822 124 81195	ELCO ALU.	100µF/16V 20%
2247	4822 124 80814	ELCO ALU.	33µF/16V 20%
2259	4822 124 81195	ELCO ALU.	100µF/16V 20%
2302	4822 122 33496	CERAMIC SMD	100nF 10% X7R
2303	4822 122 33496	CERAMIC SMD	100nF 10% X7R
2304	5322 122 32658	CERAMIC SMD	22pF 5%
2306	5322 122 32654	CERAMIC SMD	22nF 10% X7R
2307	5322 122 32654	CERAMIC SMD	22nF 10% X7R
2308	5322 122 32658	CERAMIC SMD	22pF 5%
2310	5322 122 32658	CERAMIC SMD	22pF 5%
2312	4822 124 80813	ELCO ALU.	10µF/16V 20%
2314	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2322	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2325	5322 122 32658	CERAMIC SMD	22pF 5%
2329	5322 122 32658	CERAMIC SMD	22pF 5%
2331	4822 126 13196	CERAMIC SMD	100nF 10% X7R
2333	5322 122 32654	CERAMIC SMD	22nF 10% X7R
2334	5322 122 32654	CERAMIC SMD	22nF 10% X7R
2335	5322 122 32658	CERAMIC SMD	22pF 5%
2337	5322 122 32658	CERAMIC SMD	22pF 5%
2340	4822 124 81195	ELCO ALU.	100µF/16V 20%
2341	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2401	4822 124 80814	ELCO ALU.	33µF/16V 20%
2402	4822 122 33496	CERAMIC SMD	100nF 10% X7R
2403	4822 122 33496	CERAMIC SMD	100nF 10% X7R
2404	5322 122 32658	CERAMIC SMD	22pF 5%
2408	5322 122 32658	CERAMIC SMD	22pF 5%
2410	5322 122 32658	CERAMIC SMD	22pF 5%
2412	4822 124 80813	ELCO ALU.	10µF/16V 20%
2414	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2416	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2422	4822 124 80769	ELCO ALU.	2200µF/16V 20%

2425	5322 122 32658	CERAMIC SMD	22pF 5%
2429	5322 122 32658	CERAMIC SMD	22pF 5%
2432	4822 124 80727	ELCO ALU.	4.7µF/25V 20%
2434	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2438	5322 122 32658	CERAMIC SMD	22pF 5%
2440	5322 122 32658	CERAMIC SMD	22pF 5%
2445	4822 124 81195	ELCO ALU.	100µF/16V 20%
2446	4822 124 81195	ELCO ALU.	100µF/16V 20%
2447	4822 124 80814	ELCO ALU.	33µF/16V 20%
2459	4822 124 81195	ELCO ALU.	100µF/16V 20%
2502	4822 122 33496	CERAMIC SMD	100nF 10% X7R
2503	4822 122 33496	CERAMIC SMD	100nF 10% X7R
2504	5322 122 32658	CERAMIC SMD	22pF 5%
2506	5322 122 32654	CERAMIC SMD	22nF 10% X7R
2507	5322 122 32654	CERAMIC SMD	22nF 10% X7R
2508	5322 122 32658	CERAMIC SMD	22pF 5%
2510	5322 122 32658	CERAMIC SMD	22pF 5%
2512	4822 124 80813	ELCO ALU.	10µF/16V 20%
2514	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2522	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2525	5322 122 32658	CERAMIC SMD	22pF 5%
2529	5322 122 32658	CERAMIC SMD	22pF 5%
2531	4822 126 13196	CERAMIC SMD	100nF 10% X7R
2533	5322 122 32654	CERAMIC SMD	22nF 10% X7R
2534	5322 122 32654	CERAMIC SMD	22nF 10% X7R
2535	5322 122 32658	CERAMIC SMD	22pF 5%
2537	5322 122 32658	CERAMIC SMD	22pF 5%
2540	4822 124 81195	ELCO ALU.	100µF/16V 20%
2541	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2601	4822 122 33813	CERAMIC SMD	150nF 10% X7R
2602	5322 122 32658	CERAMIC SMD	22pF 5%
2603	4822 122 33813	CERAMIC SMD	150nF 10% X7R
2604	4822 124 80813	ELCO ALU.	10µF/16V 20%
2606	4822 124 81307	ELCO ALU.	4700µF/16V 20%
2608	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2614	4822 124 81307	ELCO ALU.	4700µF/16V 20%
2615	4822 122 33813	CERAMIC SMD	150nF 10% X7R
2616	5322 122 32658	CERAMIC SMD	22pF 5%
2617	4822 122 33813	CERAMIC SMD	150nF 10% X7R
2618	4822 124 80813	ELCO ALU.	10µF/16V 20%
2620	4822 124 81307	ELCO ALU.	4700µF/16V 20%
2627	4822 124 81307	ELCO ALU.	4700µF/16V 20%
2628	4822 124 80727	ELCO ALU.	4.7µF/25V 20%
2629	4822 124 80727	ELCO ALU.	4.7µF/25V 20%
2630	4822 124 80727	ELCO ALU.	4.7µF/25V 20%
2631	4822 124 80727	ELCO ALU.	4.7µF/25V 20%
2632	4822 124 80814	ELCO ALU.	33µF/16V 20%
2633	5322 121 42114	FILM	1µF/63V 5%
2634	5322 122 32658	CERAMIC SMD	22pF 5%
2635	5322 121 42114	FILM	1µF/63V 5%
2637	5322 122 32658	CERAMIC SMD	22pF 5%
2640	4822 124 81195	ELCO ALU.	100µF/16V 20%
2701	4822 122 33813	CERAMIC SMD	150nF 10% X7R
2702	5322 122 32658	CERAMIC SMD	22pF 5%
2703	4822 122 33813	CERAMIC SMD	150nF 10% X7R
2704	4822 124 80813	ELCO ALU.	10µF/16V 20%
2706	4822 124 81307	ELCO ALU.	4700µF/16V 20%
2708	4822 124 80769	ELCO ALU.	2200µF/16V 20%
2714	4822 124 81307	ELCO ALU.	4700µF/16V 20%
2715	4822 122 33813	CERAMIC SMD	150nF 10% X7R
2716	5322 122 32658	CERAMIC SMD	22pF 5%
2717	4822 122 33813	CERAMIC SMD	150nF 10% X7R
2718	4822 124 80813	ELCO ALU.	10µF/16V 20%
2720	4822 124 81307	ELCO ALU.	4700µF/16V 20%
2727	4822 124 81307	ELCO ALU.	4700µF/16V 20%

Resistors

3127	4822 116 83876		270R 5% 0,5W
3322	4822 117 11383		12k 1%
3326	4822 117 11375		330R 1%
3326	4822 117 11447	CARBON	1k2 1%
3522	4822 117 11383		12k 1%
3526	4822 117 11375		330R 1%
3526	4822 117 11447	CARBON	1k2 1%

Coils

5101	4822 157 71922		100µH
5102	4822 157 71922		100µH
5103	4822 157 71922		100µH
5104	4822 157 71922		100µH
5105	4822 157 71922		100µH

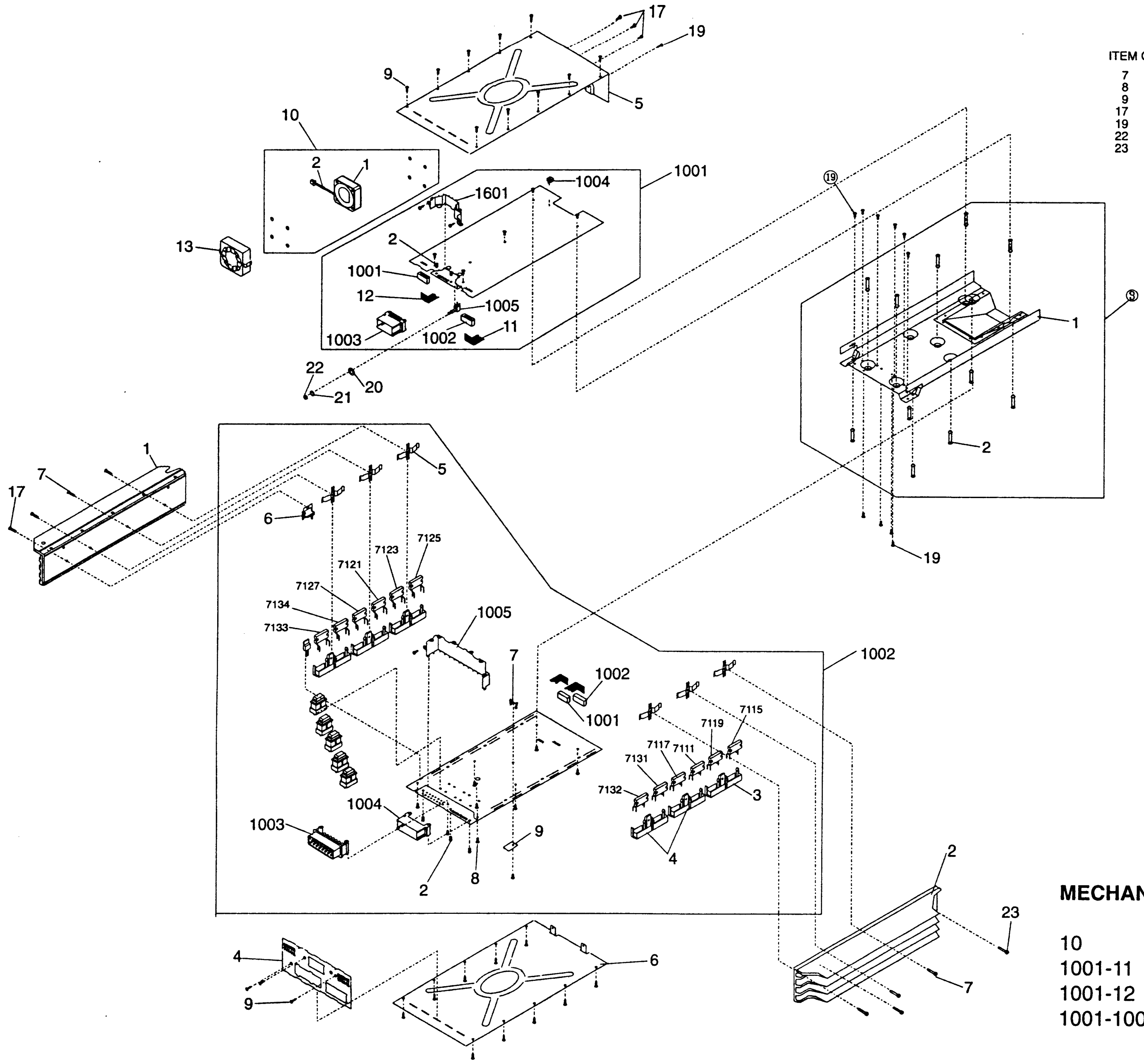
Diodes

6101	4822 130 70063		5KP26A
6102	4822 130 31982	POWER RECTIFIER	BYV27-100
6103	4822 130 30621		1N4148
6104	4822 130 30621		1N4148
6105	4822 130 81196	POWER RECTIFIER	S5566B
6106	4822 130 81196	POWER RECTIFIER	S5566B
6107	4822 130 34233	Z-DIODE	BZX79-C5V1
6108	4822 130 34167	Z-DIODE	BZX79-B6V2
6109	4822 130 30621		1N4148
6110	4822 130 30621		1N4148
6111	4822 130 30621		1N4148
6112	4822 130 30621		1N4148

Transistors and IC's

7100	5322 130 60508		BC857B
7101	4822 209 71579	VOLT./CURR. REG.	TY40408
7101	4822 209 90567	VOLT./CURR. REG.	L7805ABV
7102	4822 209 71579	VOLT./CURR. REG.	TY40408
7102	4822 209 90567	VOLT./CURR. REG.	L7805ABV
7103	4822 209 72227		L4916
7104	4822 209 80537	VOLT./CURR. REG.	LM211
7105	4822 130 40995		BD438
7106	4822 130 42705		BC847
7107	4822 130 42705		BC847
7108	4822 130 42705		BC847
7109	4822 130 42705		BC847
7110	4822 209 30095	ANA AMPLIFIER	LM833D
7111	4822 209 91035		TDA1560Q/N4
7112	4822 209 91152	ANA AMPLIFIER	MC33077D
7113	4822 209 32487		TDA1553Q/N4
7114	4822 209 91152	ANA AMPLIFIER	MC33077D
7115	4822 209 32487		TDA1553Q/N4
7116	4822 209 91152	ANA AMPLIFIER	MC33077D
7117	4822 209 91035		TDA1560Q/N4
7118	4822 209 91152	ANA AMPLIFIER	MC33077D
7119	4822 209 91152	ANA AMPLIFIER	MC33077D
7120	4822 209 30095	ANA AMPLIFIER	LM833D
7121	4822 209 91035		TDA1560Q/N4
7122	4822 209 91152	ANA AMPLIFIER	MC33077D
7123	4822 209 32487		TDA1553Q/N4
7124	4822 209 91152	ANA AMPLIFIER	MC33077D
7125	4822 209 32487		TDA1553Q/N4
7126	4822 209 91152	ANA AMPLIFIER	MC33077D
7127	4822 209 91035		TDA1560Q/N4
7128	4822 209 91152	ANA AMPLIFIER	MC33077D
7129	4822 209 91152	ANA AMPLIFIER	MC33077D
7130	4822 209 91152	ANA AMPLIFIER	MC33077D
7131	4822 209 91035		TDA1560Q/N4
7132	4822 209 91035		TDA1560Q/N4
7133	4822 209 91035		TDA1560Q/N4
7134	4822 209 91035		TDA1560Q/N4
7135	4822 209 10247	DIG MOS	HEF4011BP
7136	4822 130 42705		BC847
7137	4822 130 42705		BC847
7138	4822 130 42705		BC847
7139	4822 130 42705		BC847
7140	4822 130 42705		BC847
7141	5322 130 60508		BC857B
7142	5322 130 60508		BC857B
7143	4822 130 42705		BC847
7144	4822 130 42705		BC847

EXPLODED VIEW



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SCREWS

ITEM	QUANTITY	TORQUE(Ncm)	USING
7	6	40-60	fix power IC's
8	11	40-60	fix pwb's on basic plate
9	23	60-80	fix bottom and cover
17	3	40-60	fix stabic IC and fan
19	12	40-60	fix EMV frame
22	1	30-40	fix IF connector
23	4	40-60	fix cooling bracket

MECHANICAL PARTSLIST

10	4822 361 10765	FAN
1001-11	4822 466 93525	FOIL CONNECTION
1001-12	4822 466 93526	FOIL CONNECTION
1001-1005	4822 265 20746	COAXIAL CONNECTOR